GX-Force Program Unit Design Document

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FUNCTION	SUBJECT	DESCRIPTION	INPUT	PROCESS	OUTPUT
reg[1-1-1-1]	10 msec interrupt processing for gas	Perform 10 msec interrupt processing for gas		Invokes intermittent process of flammable sensor for 10 msec.	
well series	operation All gas concentration calculation	operation Perform all gas concentration calculation processing		Call 10 msec interruption processing of oxygen sensor. If the parameter range and the main battery are not abnormal, execute the following.	
	processing	pure		processing 2 to 6. If the flammable sensor is valid, the flammable gas concentration calculation process	
				is called.	
req[1-1-1-2]				Call concentration calculation processing. Call concentration calculation processing for display.	
				During measurement, during DISP mode, during gas test, determine which alarm event.	
				During the measurement, if it is in the DISP mode, the average value of the peak value, the STEL value, and the TWA value is updated.	
				If there is an abnormality in the flammable sensor, turn off the power.	
	Concentration calculation	Perform concentration calculation		If the O2 sensor is valid, the oxygen gas concentration calculation process is called. If the flammable sensor is valid, the flammable gas concentration calculation process	
				is called. 3. If the toxicity sensor 1 is valid, the hydrogen sulfide gas calculation processing	
req[1-1-1-3]				is called according to the type of the measurement gas. 4. If the toxicity sensor 2 is valid, the hydrogen compensation carbon monoxide	
				concentration calculation processing and the carbon monoxide concentration . calculation processing are called according to the type of the measurement gas.	
req[1-1-1-4]	10 msec interrupt of flammable sensor Calculation of flammable gas	Perform 10 msec interrupt of flammable sensor Select the mode of flammable gas calculation		When the warm up time count is 0 or more, the warm up time count is subtracted. When the oxygen sensor is active and the concentration is 20.0% or more,	
	concentration			if the current mode is over mode, cancel over mode. 2. If the combustible sensor output is updated and is not in the over mode,	
				the following processes 2 to 12 are executed.	
				Calculate the sensor output difference between the previous and current times. When the combustible warm up counter is not 0, set the warm up mode. 0,	
				execute the following processing 5 to 11. 5. In the case where the transition mode is the display mode or less and the flammable	
				difference mode return counter is 4 or more, the following processing is performed. If not applicable, set to output mode and transition to "12" processing.	
				If the sensor output is greater than or equal to the differential mode transition threshold, execute the following processing 7 to 14. If it is less than,	
				to implement the processing of *10*. 7. When the sensor output is equal to or larger than the over mode transition	
req[1-1-1-5]				threshold, the following processes 8 to 14 are executed. If it is less than,	
				to implement the processing of the "9". 8. When the oxygen sensor is effective and the concentration is 20. 0% or more, set to	
				the output mode and shift to "11" processing. If it does not apply, set to over mode and transition to processing of "11".	
				Set to the output mode and execute the process of "11". When zero tracking setting is ON Set to differential mode. Set to output mode	
				when OFF. 11. In the case of the differential mode, the processing in the difference mode is	
				performed and the following processing is performed. 12. In the transition from *11* to the warm up mode or the output mode, the output	
				mode processing is executed and the following processings 13 to 14 are executed.	
				13. If 13 is true, the oxygen sensor is valid and 20. 0%/measurement mode or display mode is not satisfied or when the inflammable concentration over flag is applied	
				during OFF/AIR calibration, the processing in the function is terminated. 14. In the case of the over mode, perform flammability protection processing.	
	Flammable output mode calculation	Calculate the sensor output for calculating the flammable output mode		Place the zero point temperature compensation coefficient on the current sensor output.	
req[1-1-1-6]		name output mode		The zero point is negative from the output obtained by "1" to calculate the span output.	
				 When the span output is less than or equal to the difference threshold value, the differential mode return counter is reset. When it exceeds the difference threshold, 	
		Calculate the concentration of Flammable gas		the difference mode return counter is incremented up to the counter upper limit. 1. When suppress mode is ON and the transition mode is less than display mode,	
	processing	-		set the value of zero suppress with a value of 2 to 5% of full scale. If it does not apply 0 for the zero suppression value.	
				Calculate temperature compensation coefficient of zero point and span. Perform processing from 4 to 6 on both A element B element.	
				 Temperature compensation is applied to the current sensor output as the output 	
				of the zero point of the reference temperature. 5. In comparison with the AIR calibration value, in the following cases, the negative	
				flag is turned off to calculate the span output. When it exceeds, the negative flag is turned on and the span output is calculated with the absolute value.	
				 Multiply span output by temperature compensation coefficient and compensate for temperature compensation coefficient of reference temperature. 	
				 When the calibration gas is a solvent gas, calculate using the span output of the A element. If it is not solvent gas, use the one with the larger span output. 	
				Consider fix value. 9. If the transition mode is less than or equal to the display mode, multiply the span	
				coefficient by the read replacement coefficient. If it exceeds the display mode,	
				multiply by the rewriting coefficient of the calibration gas. 10. Calculate the current percentage of $0 - FS = 0 - 100\%$ with span output \div span	
req[1-1-1-7]				coefficient (after replacement coefficient added). 11. When the transition mode is below display mode, calibration curve processing for	
				replacement. When the display mode is exceeded, calibration curve processing for calibration gas.	
				When the transition mode is less than display mode, convert to ppm using calculation LEL value for replacement. When it exceeds the display mode.	
				convert it to ppm using calculation LEL value for calibration gas.	
				13. When the transition mode is less than the display mode, convert to LEL using the display LEL value for replacement. When it exceeds the display mode, convert it to	
				LEL using the display LEL value for calibration gas. 14. If the calculated concentration exceeds 120% of the full scale, it is fixed to 120%.	
				Zero sub process. Digit rounding processing.	
				17. When the concentration is positive, compare the concentration value with the full scale value and set the over flag, then turn off the negative over flag.	
				When the concentration is negative, the over flag is turned off, the concentration	
				is compared with -10% of FS, and the negative over flag is calculated. If the negative over flag is ON and the long energy mode is ON, the negative over flag and	
				the negative flag are turned off and the concentration is doubled. 19. When the negative flag is ON, change the concentration to 10% plus 1 digit	
	Acquisition of combustible sensor	Acquire combustible sensor warm-up flag		of full scale. 1. In the warm-up mode, turn on the flammable sensor warming up flag.	
	warm-up flag			Return flammable sensor warming up flag.	
req[1-1-1-8]					
	Settings during combustible warm-up	Set combustible warm-up settings		Substitute the ON/OFF setting flag for the flammable sensor warming up flag.	
rea[1-1-1-9]					
req[1-1-1-9]					
req[1-1-2-1]	NC span point temperature compensation coefficient calculation	Perform NC span point temperature compensation coefficient calculation processing		 Calculate span point temperature compensation coefficient from current temperature (quadratic equation). 	
	processing NC zero point temperature	Perform NC zero point temperature compensation		Calculate the difference between the reference temperature and the current	
req[1-1-2-2]	compensation coefficient calculation processing	coefficient calculation processing		temperature. From the temperature difference, calculate the zero point temperature compensation.	
				coefficient.	
req[1-1-2-3]	NC100ms value temperature compensation coefficient calculation	Perform NC100ms value temperature compensation coefficient calculation processing		Calculate NC100ms temperature compensation coefficient from current temperature (quadratic equation).	
.aq[1-1-2-3]	processing				
	Absolute humidity calculation	Perform absolute humidity calculation		Add the temperature compensation coefficient to the NC100ms value. Calculate absolute humidity from NC100ms value (quadratic equation).	
req[1-1-3-1]				3. If the current temperature is less than the reference temperature or the temperature at	
req[1-1-3-2]	NC zero point humidity compensation	Perform NC zero point humidity compensation		zero adjustment is less than the reference temperature, set the absolute humidity to 0. 1. Calculate NC zero point humidity compensation coefficient from current absolute	
req[1-1-3-2]	coefficient calculation processing NC span humidity compensation	coefficient calculation processing Perform NC span humidity compensation coefficient		humidity 1. Calculate NC span humidity compensation coefficient from current absolute humidity	
req[1-1-3-3]	coefficient calculation processing Calculation of display concentration	calculation processing Calculate display concentration		(linear equation). 1. In the case of a sensor abnormality, turn off the display density minus flag,	
	angray amountaind!			the display density over flag, the display density minus over flag and set the display density value to 0. If it is not abnormal, execute the following processes 2 to 7.	
				When the real concentration negative flag is ON, the display concentration over flag is turned off.	
				3. When the real concentration negative over flag is ON, turn on the display	
				concentration negative over flag and the display concentration negative flag and set the display concentration value to -10% -1 digit of F. S.	
req[1-1-4-1]				 When the real concentration negative over flag is OFF, the display concentration negative over flag is turned off and the display concentration negative flag is turned on. 	
				The display concentration value is set to the same value as the actual concentration value.	
				When the real concentration negative flag is OFF, the display concentration negative flag is turned off, the display concentration negative over flag is turned off.	
				6. When the actual concentration over flag is ON, the display concentration over flag is	
				turned on and the display concentration value is made FS + 1 digit. 7. When the actual concentration over flag is OFF, the display concentration over flag is	
				turned off and the display concentration value is set to the same value as the actual concentration value.	
	-	-	-	-	

	NC sensor element	NC sensor element		When the energization time count is 0, the following processes 3 to 8 are executed. Sets the energization time count according to the element energization flag of	
			4	the NC sensor and resets the element energization flag. When the element energization flag is 1000 msec for B element, the energization	
				time count is changed according to ON/OFF of long energy setting. 5. When the element energization flag is OFF and the long energy setting is OFF,	
eq[1-1-6-1]				the energization time count is rounded off to the standard OFF time.	
				When the flammable sensor protection flag is ON, the energization time count is set to 0 and the element energization flag is turned off.	
			7	When the flammable sensor ON/OFF flag is OFF, the energization time count is set to 0 and the element energization flag is turned off.	
			Ε	In accordance with the element energization flag, the corresponding port setting process is called.	
eq[1-1-6-2]	Flammability protection setting call	Perform setting of flammable protection setting	1	Return flammable sensor protection flag.	
eq[1-1-6-3]	Read the energization flag of the NC sensor	Read the energization flag of the NC sensor		Return the element energization flag of the NC sensor.	
eq[1-1-6-4]	Flammability protection setting	Perform flammable protection settings	1	Substitute the ON/OFF setting flag for the flammable sensor protection flag.	
eq[1-1-6-5]	Setting the Flammable Protection Allowed Flag	Setting the Flammable Protection Allowed Flag	1	Substitute the ON/OFF setting flag for the flammable protection allowed flag.	
eq[1-1-7-1]	NC sensor element port operation NC sensor high concentration contact	Perform NC sensor element port operation Perform NC sensor high concentration contact flag	1	Perform port setting according to element specification value. The flag is turned ON when all the following conditions are met.	
eq[1-1-7-2]	flag setting	setting		Selement energization flag is 1, 2, 4 or 5 NC voltage difference is outside the threshold range	
				3) The combustible main flag is OFF, the warm-up main flag is OFF, and the NC protection_permission flag is ON	
eq[1-1-7-3]	Acquisition of AIR delay count when flammable sensor protection is OFF	Acquire the AIR delay count when flammable sensor	1	I. Return warming time count.	
q[1-1-7-4]	flammable sensor protection is OFF Acquire flammable sensor protection	protection is OFF Acquire flammable sensor protection flag	1	In the over mode, turn on the flammable sensor protection flag.	
	flag Flammable sensor protection flag	Perform flammable sensor protection flag setting	2	Return flammable sensor protection flag. In the case of the over mode, execute the following processing 2 to 4.	
	setting			In the case of AIR calibration, the warm up count is set to 15 sec and the sensor mode is set to the warm up mode.	
eq[1-1-7-5]				The warm up count is set to 15 sec and the sensor mode is set to the warm up mode.	
			4	 If there is no oxygen sensor, set warm up count to 15 sec and set sensor mode to 	
	Flammable protection mode	Perform flammable protection mode processing	1	warm air mode ". I. Set the warm up time count to 0.	
eq[1-1-7-6]	processing			Set the actual concentration over flag to ON Actual concentration negative flag and real concentration negative over flag are	
od[o]				turned off. 4. Set the actual concentration to FS + 1 digit.	
	EC sensor concentration calculation	Perform EC sensor concentration calculation	1	Obtain suppression value.	
			3	2. Add the A/D value to the integrated output value for 1 minute. 3. If the A/D value is less than the zero coefficient, turn on the minus flag.	
			4	Apply the zero coefficient to the A/D value. Perform temperature compensation for A/D value.	
			ě	Calculate the full scale value concentration ratio from the A/D value and perform calibration curve processing.	
eq[1-2-1-1]]	Calibration curve processing. Calculate actual concentration value from concentration ratio and full scale value. Perform zero suppression processing and digit rounding on actual concentration	
				values.	
				When the actual concentration is above the full scale, turn on the over flag. When the actual concentration is 120% or more of the full scale, the value is rounded	
			1	to 120% of the full scale. 11. When the minus flag is ON, the over flag is turned off, and when the actual	
- ra c · · ·	Sensor A/D value acquisition	Perform sensor A/D value acquisition processing	1	concentration is higher than 10% of the full scale, the minus over flag is turned on. I. Return the A/D value corresponding to the gas channel.	
eq[1-2-1-2]	processing		2	If the channel is H2S, return the A/D value according to the gas number.	
	Span A/D calculation processing	Perform span A/D calculation processing		The following processes 2 to 4 are carried out according to the sensor output direction. Apply the zero coefficient to the sensor A/D value	
eq[1-2-1-3]				 When the sensor A/D value is in the plus direction, turn off the real concentration minus flag. 	
				 When the sensor A/D value is in the minus direction, turn on the real concentration minus flag. 	
	Calculate concentration of hydrogen cancellation carbon monoxide	Perform hydrogen cancellation carbon monoxide concentration calculation	1	Suppress setting is ON, when not in maintenance mode, zero suppression value is set.	
	cancellation carbon monoxide	concentration calculation		Add the A/D value to the integrated output value for 1 minute.	
			4	Apply a zero coefficient to the A/D value. Apply temperature compensation to span coefficient.	
			5	Calculate the full scale value concentration ratio from the A/D value and apply calibration curve processing.	
			[·	Regularity check of the span coefficient matrix is carried out, and if it is regular, the following processes 8 to 11 are carried out.	
eq[1-2-1-4]				 Obtain the span coefficient inverse matrix and find the actual concentration from the A/D value and the inverse matrix. 	
			ε	Perform zero suppression processing and digit rounding on actual concentration	
				values. When the actual concentration is above the full scale, turn on the over flag.	
				 When the actual concentration is 120% or more of the full scale, the value is rounded to 120% of the full scale. 	
			1	11. When the minus flag is ON, the over flag is turned off, and when the actual concentration is higher than 10% of the full scale, the minus over flag is turned on.	
eq[1-2-1-5]	Inverse matrix calculation processing	Perform inverse matrix calculation processing	1	Generate an identity matrix. Find inverse matrix by sweeping method.	
	Confirming whether inverse matrix	Confirm whether inverse matrix exists	1	Generate a three-dimensional matrix from a matrix.	
eq[1-2-1-6]	exists			Calculate the product of diagonal parts. If a determinant exists, calculate the determinant.	
	Interference elimination sensor	Performs interference elimination sensor calculation	4	Return determinant. Perform bubble sort on CO concentration.	
	calculation value correction processing	value correction processing	ļ a	2. When the concentration after hydrogen compensation is the largest, the second largest concentration is returned.	
eq[1-2-1-7]	processing			3. When the concentration after hydrogen compensation is the smallest, it returns	
				the second smallest concentration. 4. Otherwise, return the concentration after hydrogen compensation.	
	Oxygen gas concentration calculation	Perform oxygen gas concentration calculation processing		When not in maintenance mode, set zero suppression value. Add the A/D value to the integrated output value for 1 minute.	
				If the A/D value is less than or equal to the span coefficient, turn off the negative flag and turn on the zero tracking prohibition flag.	
			4	and rurn on the zero tracking pronibition riag. 1. When the A/D value is above the span coefficient, turn on the negative flag. 5. Apply span coefficient to A/D value.	
				Apply temperature compensation to A/D value.	
eq[1-2-1-8]				 Apply the zero coefficient to the span coefficient. Calculate the output per 1% from the span coefficient. 	
			1	Perform calibration curve processing to A/D value. Calculate the actual concentration value from the A/D value and the output per 1%.	
				 Perform zero suppression processing and digit rounding on actual concentration values. When the actual concentration is above the full scale, turn on the over flag. 	
				 When actual concentration is 120% or more of full scale, value is rounded to 120% of full scale. 	
			1	14. When the negative flag is ON, the over flag is turned off, and if the actual concentration is higher than 10% of the full scale, the negative over flag is turned on.	
	Span temperature compensation	Perform span temperature compensation coefficient	1	From the temperature compensation coefficient table corresponding to the gas channel	
eq[1-2-2-1]	coefficient calculation processing	calculation processing		and the calibration curve number, the compensation value at the current temperature is calculated.	
eq[1-2-2-2]	Zero temperature compensation coefficient calculation processing	Perform zero temperature compensation coefficient calculation processing	1	 From the temperature compensation coefficient table corresponding to the gas channel and the calibration curve number, the compensation value at the current temperature 	
	Calculation of sensitivity ratio	Calculation of the sensitivity ratio (temperature		is calculated. I. Calculate the temperature compensation coefficient from temperature.	
eq[1-2-2-3]	(temperature compensation coefficient) of current temperature	compensation coefficient) of the current temperature (span temperature compensation coefficient) is	2	Calculate the temperature compensation coefficient. Return temperature compensation coefficient.	
ω _{[[1} -2-2-3]	(span temperature compensation	(span temperature compensation coefficient) is performed			
	coefficient) Interference elimination sensor zero	Perform interference elimination sensor zero point	1	I. If the ambient temperature of the thermistor is out of the range of the table,	
mald_0.0.41	point temperature correction processing	temperature correction processing		truncate the value. 2. Calculate the intermediate value of the table and calculate the temperature	
eq[1-2-2-4]			3	characteristic compensation value. 3. Correct the temperature at the zero point of each sensor output.	
	Span tomporetive asset	Perform enon tomperature access of "	4	Calculate the temperature compensation value at the zero point.	
eq[1-2-2-5]	Span temperature compensation coefficient calculation processing	Perform span temperature compensation coefficient calculation processing	¹	 From temperature, calculate the temperature compensation coefficient (quadratic equation). 	
	10 msec interrupt for oxygen calculation processing	Perform 10 msec interrupt processing for oxygen calculation processing	1	 When the following conditions 2 to 5 are satisfied, the rush change process is stopped. Hasty change processing is being executed. 	
				Rapid change process initial count is 1. The A/D value of the EC sensor is greater than or equal to the peak MIN value for rapid	
				processing.	
eq[1-2-5-1]				5. I am detecting the bottom. 6. When the rapid change process is being executed, the following processes 7 to 8 are	
eq[1-2-5-1]	1			executed. 7. Forcibly stop the urgent change	
eq[1-2-5-1]				B. Update peak value.	
eq[1-2-5-1]	Cudden anno		1	 When the current concentration is negative, the current concentration is multiplied by -1. If the previous concentration is 20. 9% or higher and the current concentration is lower 	
	Sudden pressure change detection processing	Perform sudden pressure change detection processing	-		
eq[1-2-5-1] eq[1-2-5-2]			13	than 20. 9%, the result is down detected. In cases other than initials, measurement, display mode, make the result undetected.	
	processing Forced stop processing for sudden	processing Perform forced stop processing for sudden pressure	3	In cases other than initials, measurement, display mode, make the result undetected. In the case where the following conditions 2 to 4 are satisfied, the rapid	
eq[1-2-5-2]	processing	processing	3	In cases other than initials, measurement, display mode, make the result undetected. In the case where the following conditions 2 to 4 are satisfied, the rapid change processing is stopped. Immediate change processing is in the latter term.	
	processing Forced stop processing for sudden	processing Perform forced stop processing for sudden pressure	3	In cases other than initials, measurement, display mode, make the result undetected. In the case where the following conditions 2 to 4 are satisfied, the rapid change processing is stopped.	

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req[1-2-5-4]	Sudden pressure change processing peak value update processing	Performs peak value update processing for sudden pressure change	 When the following conditions 2 to 3 are satisfied, the peak value of the rapid change is updated with the current value. Heavy change flag is initial execution. When the rampart change peak value is larger than the current A/D value.	
	Sudden pressure change start	Performs sudden pressure change start processing	In the case of downward detection, the initial count of rush change processing is set	
req[1-2-5-5]	processing		to 0.8 sec. 2. In the case of the upper detection, the initial count of the rapid change processing is set to 3.0 sec. 3. Set the latter period count of rush change processing to 5.0 sec. 4. Set the executing process of the urgent change processing to the initial execution. 5. Update rapidly changing PEAK with current value.	
req[1-2-5-6]	Sudden pressure change stop processing	Performs sudden pressure change stop processing	Initialize the initial count of rush change processing. Initialize the late count of rush change processing. Make the rush change processing in progress flag unexecuted.	
req[1-3-1-1]	Calibration curve processing of gas concentration	Perform calibration curve processing of gas concentration	If the output ratio exceeds 100%, return the output ratio as it is. 2. From the output ratio and the calling out out by data, a corresponding portion of the calibration curve is searched. 3. Calculate the slope between the points of the calibration curve from the corresponding calibration curve Y data, X data, and correct the output ratio. 4. Return the corrected output ratio.	
req[1-3-1-2]	Interference elimination sensor calibration curve processing	Perform interference elimination sensor calibration curve processing	From the gas display value, search the calibration curve table for the corresponding portion. Calculate the intermediate value of the table and calculate the calibration curve correction value.	
req[1-3-1-3]	NC sensor calibration curve processing	Perform NC sensor calibration curve processing	Based on the pre-correction change rate, the corresponding calibration curve data is searched.	
req[1-3-2-1]	Inverse calibration curve processing of gas concentration	Perform inverse calibration curve processing of gas concentration	2. Calculate the post-correction change rate from the calibration curve data. If the output ratio exceeds 100% or is lower than 0%, it returns the output ratio as it is. From the output ratio and the calibration curve X data, a corresponding part of the calibration curve is searched. 3. Calculate the slope between the points of the calibration curve from the corresponding calibration curve Y data, X data, and correct the output ratio. 4. Return the corrected output ratio.	
req[1-3-2-2]	NC sensor calibration curve reverse processing	Perform NC sensor calibration curve reverse lookup processing	Return the corresponding calibration curve data from the uncorrected concentration. Calculate post-correction concentration from calibration curve data.	
	Flammable difference mode calculation	Calculate flammable difference mode	Set the address to NC Calculate the difference between the current temperature and the temperature	
req[1-4-1-1]			at zero calibration. 3. If the temperature difference is negative, convert the temperature difference to absolute value.	
	EC tracking processing	Perform zero tracking processing of the EC sensor	4. Calculate the NC zero point temperature compensation coefficient. 1. When the mode is not measurement mode and display mode, zero tracking ONOFF setting of zero tracking turn off the flag. 2. When the mode is the measurement mode or the display mode and the tracking function is ON, the following processes 3 to 10 are executed. 3. Increment counters for 30 seconds. 4. Consider a Concentration value.	
req[1-4-1-2]			5. Calculate the current display value. 6. Shift be zero tracking deend concentration. 7. Calculate the average value over 30 seconds. 8. Substitute the average value for the zero tracking deend concentration. 9. Calculate the average value for the zero tracking deend concentration. 9. Calculate the average difference every 30 seconds. 10. The offest value is divided from the true concentration to calculate the display value.	
	EC tracking reset processing	Reset the zero tracking of the EC sensor	Reset the average calculation counter. Reset the count timer for 30 seconds for zero tracking.	
req[1-4-1-3]			Reset offset offset for zero tracking. Initialize concentration data for zero tracking deend.	
req[1-4-1-4]	Zero tracking execution flag acquisition Positive side zero tracking slope	Perform zero tracking execution flag acquisition processing on plus side Perform positive side zero tracking slope confirmation	 The zero tracking execution flag of each gas channel is acquired. Return zero tracking execution flag. The positive side zero tracking slope confirmation density of each gas channel is	
req[1-4-1-5]	confirmation density acquisition	Perform positive side zero tracking slope confirmation density acquisition Perform suppression value acquisition processing	1. The positive side zero tracking slope confirmation density of each gas channel is acquired. Suppress setting is on, not in maintenance mode, acquire zero suppression value for	
req[1-5-1-1]			 each channel. 2. Returns the acquired suppress value .	
req[1-5-1-2]	Export Control Concentration Acquisition Processing	Perform export control concentration acquisition processing	Acquire export control concentration for each channel. Returns the acquired export control concentration.	
req[1-6-1-1]	sensor to current value	Update PEAK value of flammable sensor to the current value	 1. When the sensor is normal, the following processes 2 to 6 are carried out. 2. Update minimum value. 3. Acquire the current concentration value. 4. Get the current flag. 5. Get the current time. 6. Update maximum value.	
req[1-6-1-2]	Update PEAK value to current value	Update PEAK value to current value	1. When the sensor is normal, the following processes 2 to 6 are carried out. 2. Update minimum value. 3. Acquire the current concentration value. 4. Get the current flag. 5. Get the current time. 6. Update maximum value.	
req[1-6-1-3]	PEAK value update processing	Perform PEAK value update processing	1. When the peak update prohibition flag is ON and the sensor is normal, the following processes 2 to 6 are executed. 2. Update minimum value. 3. Acquire the current concentration value. 4. Get the current flag. 5. Get the current time. 6. Update maximum value.	
	PEAK value display processing	Perform PEAK value display processing	Opbase insolution if value T. When the following conditions 2 to 5 are satisfied, set the PEAK value to the minimum value and set the minus flag of the minimum value. Z ofting is 0.7 of 0.0	
req[1-7-1-1]			S. It is oxygen. When the following conditions 7 to 10 are satisfied, set the PEAK value to the maximum value and set the minus flag of the maximum value. 7. Setting is 0.N. 8. H2 Cancel is not CO. 9. The sensor is normal. 10. Not oxygen. 11. Assign gas name / unit corresponding to display of PEAK value.	
	Peak clear	Perform peak clear	Create character data corresponding to display of PEAK value. Set the time buffer.	
req[1-8-1-1]		Perform peak clear Perform PEAK clear HOLD display processing	Set the time buffer. Check operating system events. Create character data corresponding to PEAK clear HOLD.	
req[1-8-1-2] req[1-8-1-3]	PEAK clear RELEASE display	PerformPEAK clear RELEASE display processing	Create character data corresponding to PEAK clear RELEASE.	
	processing Average value STEL value TWA value update processing	Perform average value STEL value TWA value update processing	1. If it is not an invalid concentration, the following processes 2 to 12 are carried out. 2. When the average update prohibition flag is OFF and the minus flag OFF, the display concentration is added to the integration value for 1 minus. 3. When the average update prohibition flag is ON, the zero tracking prohibition flag is set to ON. 4. 1 Add the number of samples.	
req[1-9-1-1]			 1. I minutes if the timer count is 1 minute, carry out the following. 6. Add the average processing times from startup. 7. Calculate the integrated value for 1 minute and the average value for 1 minute from the number of samples. 8. 1 Add the average value for 1 minute to the average integrated value. 9. Calculate the average value from the start from the average processing count from startup and the average integrated value per minute. 10. Calculate STLE value and TIVA value. 	
	60 minute integration buffer shift processing	Perform 60 minute integration buffer shift processing	Set the integrated value, number of samples, 1 minute timer count to 0. Shift the 60 minute integration buffer by B brus: Clear the latest 60 minute integration buffer with zeros.	
req[1-9-1-2]				
	STEL calculation processing	Perform STEL calculation processing	Perform the following processing on gas with gas channel number. Update the average value for 1 minute to the buffer indicated by the STEL value	
req[1-10-1-1]			2. Update the average value for Imitude to the outlier indicated by the STEL value calculation buffer update location count. 3. Calculate the STEL value from the STEL value calculation buffer (penform digit rounding together). 4. If the update location count exceeds 14. return the count to 0.	
L				

	STEL value display processing	Perform STEL value display processing	When the following conditions 2 to 6 are satisfied, STEL is displayed.	
1			2. Setting is ON. 3. H2 Cancel is not CO.	
			The sensor is normal.	
			STEL alarm is ON. STEL value is larger than full scale value.	
			When the following conditions 8 to 12 are satisfied, '' is displayed.	
req[1-11-1-1]			8. Setting is ON. 9. H2 Cancel is not CO.	
			10. The sensor is normal. 11. STEL alarm is ON.	
			12. STEL value is smaller than full scale value.	
			13. Assign gas name / unit corresponding to display of STEL value.	
			 Create character data corresponding to display of STEL value. 	
	TWA calculation processing	Perform TWA calculation processing	The TWA value is calculated from the average integrated value for 1 minute for the gas	
req[1-12-1-1]			of the gas channel number.	
	TWA value display processing	Display TWA value display processing	When the following conditions 2 to 6 are satisfied, TWA is displayed.	
			2. Setting is ON. 3. H2 Cancel is not CO.	
			The sensor is normal.	
			TWA alarm is ON. TWA value is larger than full scale value.	
rea[1-13-1-1]			7. When the following conditions 8 to 12 are satisfied, '' is displayed. 8. Setting is ON.	
1eq[1-13-1-1]			9. H2 Cancel is not CO.	
			10. The sensor is normal. 11. TWA alarm is ON.	
			12. TWA value is smaller than full scale value.	
			 Assign gas name / unit corresponding to display of TWA value. Create character data corresponding to display of TWA value. 	
reg[1-14-1-1]	ALARM 1 H calculation processing	Perform ALARM 1 H calculation processing	Calculate 1 H integrated value from average integrated value for 1 minute for gas of gas channel number.	
rod[: 14 : 1]				
	Integrated value display processing	Perform Integrated value display processing	When the following conditions 2 to 6 are satisfied, the integrated value is displayed. Setting is ON.	
			The sensor is normal.	
			TWA value is larger than full scale value. When the following conditions 6 to 8 are satisfied, '' is displayed.	
req[1-15-1-1]			6. Setting is ON.	
1			The sensor is normal. TWA value is smaller than full scale value.	
1			Assign gas name / unit corresponding to display of TWA value.	
1			 Create character data corresponding to display of TWA value. 	
req[2-1-4-1]		Initialize the alarm event flag	 Initialize the alarm flag.	
req[2-1-4-2]	Alarm reset processing	Perform alarm reset processing	 Turnon the alarm reset flag. Turnoff the new alarm occurrence flag.	
req[2-1-5-1]	Acquire warning flag	Acquire warning flag	Turnoff the new alarm occurrence flag. Return alarm latching status of each sensor.	
	Alarm event judgment	Perform alarm event judgment	When the alarm function flag is ON, the following processes 2 to 6 are executed.	
l _			If the sensor is valid and not a sensor error, implement the following. Determine the presence or absence of an alarm.	
req[2-1-5-2]			Substitute an alarm flag.	
1			If the sensor is invalid or sensor error, set alarm status and alarm holding status to 0. Turnoff the reset flag.	
	Alarm deend processing	Perform alarm deend processing	If the current concentration is not an invalid value, the following processes 2 to 7	
1			are executed. 2. When the current concentration is positive, if the concentration value exceeds each	
			alarm point, the alarm status is set.	
			If the STEL concentration exceeds the STEL alarm point, the alarm status is set. If the TWA concentration exceeds the TWA alarm point, the alarm status is set.	
			5. When the integral alarm flag is ON, if the integrated concentration exceeds	
req[2-1-5-3]			the integral alarm point, the alarm status is set. 6. When the display concentration over flag is ON, the alarm status is set.	
			7. When the display concentration negative over flag is ON, the alarm status is set.	
	Al			
	Alarm flag assignment processing	Perform alarm flag assignment processing	 The alarm status is compared with the alarm latching status, and when there is a new alarm, the new alarm occurrence flag is turned on. 	
req[2-1-5-4]			When auto reset setting or alarm reset flag is ON, set alarm status to alarm latching status.	
			When the self-maintenance setting is set and the alarm reset flag is OFF, the alarm	
			status is substituted into the alarm holding status.	
req[2-1-5-5]	Gas alarm confirmation processing	Perform gas alarm confirmation processing	Turnon the result when gas warning announcement or temperature alarm reporting.	
			2. Return results.	
req[2-1-5-6]	Gas alarm confirmation processing	Perform gas alarm confirmation processing	Perform the following processes 2 and 3 for all sensors. When the sensor is valid, carry out the following.	
			If there is an alarm holding status, return on.	
req[2-1-5-7]	Alarm confirmation processing other than man down alarm	Perform alarm confirmation processing other than Man down alarm	When a warning other than the man down warning is confirmed, turn on the result. Return results	
req[2-2-1-1]	Alarm point setting change gas	Alarm point setting change gas Confirm if ESCAPE	When the item number is the maximum value + 1, turn on the result.	
req[z-z-1-1]	check if ESCAPE display is displayed Alarm point setting gas change	display is displayed Alarm point setting gas change check if reset is	Returns the judgment result. When the item number is the maximum value, turn on the result.	
req[2-2-1-2]	check if reset is displayed	displayed	Returns the judgment result.	
	Alarm point setting display processing	Perform alarm point setting display processing	Display WARNING, ALARM, ALARM H, STEL in this order. When totalization alarm is ON, ALARM 1 H is displayed.	
req[2-2-1-3]			When Totalizing alarm is OFF, TWA is displayed.	
	Alarm point setting gas selection	Perform alarm point setting gas selection menu	If the item number is smaller than the maximum value, create display characters for	
req[2-2-1-4]	menu display processing	display processing	alarm point settings. 2. If the item number is the maximum value, create display characters for default alarm	
			point settings.	
	Alarm point setting end processing	Perform alarm point setting end processing	Otherwise create a display character for FSCAPF End the setting in the order of 1. 1 st alarm point, 2 nd alarm point, 3 rd alarm point,	
req[2-2-1-5]			STEL alarm point, TWA alarm point.	
	Alarm point setting start processing	Perform alarm point setting start processing	Start setting in the order of 1. 1 st alarm point, 2 nd alarm point, 3 rd alarm point,	
req[2-2-1-6]			STEL alarm point, and TWA alarm point.	
ren[2-2-1-7]	Alarm point setting gas selection	Perform alarm point setting gas selection menu	Set item number.	
req[2-2-1-7]	menu start processing	start processingg	Turnoff up / down numerical value setting.	
1	Alarm point set value change processing	Perform alarm point set value change processing	1. 1st, 2nd, 3rd Acquire alarm settable upper limit value 2. 1st, 2nd, 3rd Alarm point setting Accept the lower limit value to be acquired	
			Acquire the STEL alarm point setting upper limit value Acquire STEL alarm point setting lower limit value	
req[2-2-1-8]			Acquire TWA alarm point setting upper limit value	
.ou[z-z-1-8]			Acquire TWA alarm point settable lower limit value Set the alarm point setting upper limit value and alarm point setting lower limit value	
1			of O2.	
1			Set alarm point setting upper limit value and alarm point setting lower limit value of gas other than O2.	
req[2-2-1-9]	Alarm point setting gas selection	Alarm point setting gas selection menu change gas	If the up / down change setting of the numerical value is OFF, change the gas.	
	menu change gas Alarm point change alarm type	Perform alarm point change alarm type change	When numerical up / down change setting is ON, set to ESCAPE. If the item number is 0 or 1, enable 3rd alarm selection.	
req[2-2-1-10]	change processing	processing	 When the item number is 0 - 3, make it selectable up to the TWA alarm.	
req[2-3-1-1]	Latching auto reset setting display processing	Perform latching auto reset setting display processing	 Create a display of the ON/OFF setting menu corresponding to the self-holding automatic restoration setting.	
		Perform latching auto reset setting end processing	Put item number in item number.	
roof2 2 4 01	Latching auto reset setting end		2. Turnon FRAM write start flag.	
req[2-3-1-2]	Latching auto reset setting end processing	Porform Intelling outs reset setting		
req[2-3-1-2] req[2-3-1-3]	Latching auto reset setting end	Perform latching auto reset setting start processing	Insert alarm action in item number.	
	Latching auto reset setting end processing Latching auto reset setting start processing Latching auto reset setting ON/OFF	Perform latching auto reset setting ON/OFF	Insert alarm action in item number. Put ON/OFF replacement processing in item number.	
req[2-3-1-3] req[2-3-1-4]	Latching auto reset setting end processing Latching auto reset setting start processing Latching auto reset setting ON/OFF selection processing	Perform latching auto reset setting ON/OFF selection processing	Put ON/OFF replacement processing in item number.	
req[2-3-1-3]	Latching auto reset setting end processing Latching auto reset setting start processing Latching auto reset setting ON/OFF selection processing Alarm self-maintenance auto reset check processing	Perform latching auto reset setting ON/OFF selection processing Perform alarm self-maintenance auto reset check processing	Put ON/OFF replacement processing in item number. Return alarm action.	
req[2-3-1-3] req[2-3-1-4]	Latching auto reset setting end processing Latching auto reset setting start processing Latching auto reset setting ON/OFF selection processing Alarm self-maintenance auto reset	Perform latching auto reset setting ON/OFF selection processing Perform alarm self-maintenance auto reset	Put ON/OFF replacement processing in item number.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1]	Latching auto reset setting end processing Latching auto reset setting start processing Latching auto reset setting ON/OFF selection processing Alarm self-maintenance auto reset check processing Alarm self-mainten	Perform latching auto reset setting ON/OFF selection processing Perform alarm self-maintenance auto reset check processing	Put ON/OFF replacement processing in item number. Return alarm action.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5]	Latching auto reset setting end processing Latching auto reset setting start processing Latching auto reset setting GNI/OFF selection processing Alarm self-maintenance auto reset check processing Alarm silence flag setting process Alarm silence setting start processing	Perform latching auto reset setting ON/OFF selection processing Perform alarm self-maintenance auto reset check processing Perform alarm silence flag setting process Perform alarm silence setting start processing	Put ONOFF replacement processing in item number. Return alarm action. Assign ONOFF to the alarm silence flag. Insert alarm silence setting in item number.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1]	Latching auto reset setting end processing Latching autor reset setting start processing Latching autor reset setting ON/OFF selection processing Latching autor reset setting ON/OFF selection processing Alarm self-maintenance auto reset check processing Alarm silence flag setting process Alarm silence setting start processing Alarm silence setting end processing	Perform latching auto reset setting ON/OFF selection processing Perform alarm self-maintenance auto reset check processing Perform alarm silence flag setting process Perform alarm silence setting start processing Perform alarm silence setting start processing Perform alarm silence setting end processing	Put ONOFF replacement processing in item number. Return alarm action. Assign ONOFF to the alarm silence flag.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2]	Latching auto reset setting end processing Latching auto reset setting start processing Latching auto reset setting ON/OFF selection processing Alarm self-maintenance auto reset check processing Alarm silence flag setting process Alarm silence setting start processing Alarm silence setting end processing Alarm silence setting end processing Alarm silence setting end processing Alarm silence setting display	Perform latching auto reset setting ON/OFF selection processing Perform alarm self-maintenance auto reset check processing Perform alarm silence flag setting process Perform alarm silence setting start processing	Put ONOFF replacement processing in item number. Return alarm action. 1. Resign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-3]	Latching auto reset setting end processing Latching autor reset setting start processing Latching autor reset setting GNI/OFF selection processing Latching autor reset setting GNI/OFF selection processing Alarm silence setting start processing Alarm silence setting start processing Alarm silence setting display processing Alarm silence setting display processing Alarm silence setting display processing	Perform latching auto reset setting ONOFF selection processing Perform alarm self-maintenance auto reset check processing. Perform alarm silence flag setting process Perform alarm silence setting start processing. Perform alarm silence setting start processing. Perform alarm silence setting end processing.	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 2. Turnon FRAM write start flag. 1. Create a display of the ONOFF setting menu corresponding to the alarm silence setting.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2]	Latching auto reset setting end processing Latching auto reset setting start processing Latching autor reset setting start processing Latching autor reset setting ON/OFF selection processing Alarm self-maintenance auto reset check processing Alarm silence flag setting process Alarm silence setting start processing Alarm silence setting display processing selection processing Alarm silence setting display processing silence setting ONOFF selection processing ONOFF selection processing ONOFF selection processing	Perform latching auto reset setting ONOFF selection processing Perform attems selection processing Perform attems selection processing Perform attems selected theck processing Perform alaim silence flag setting process Perform alaim silence setting start processing Perform alaim silence setting end processing Perform alaim silence setting display processing Perform alaim silence setting ONOFF selection process	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 1. Put item number in item number. 1. Croste a display of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-3] req[2-6-1-4] req[2-6-1-5]	Latching auto reset setting end processing Latching auto reset setting start processing Latching auto reset setting ON/OFF selection processing Alarm self-maintenance auto reset check processing Alarm silence setting start processing Alarm silence setting end processing Alarm silence setting end processing Alarm silence setting display processing Alarm silence setting display processing	Perform latching auto reset setting ONOFF selection processing Perform aim self-maintenance auto reset check processing Perform aim self-maintenance auto reset check processing Perform aim silence setting process Perform aim silence setting start processing Perform aim silence setting daplay processing Perform aim silence setting display processing Perform aim silence setting ONOFF selection	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 2. Turnon FRAM write start flag. 1. Create a display of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number. 1. Do not let the screen flicker when sensor circuit fault, all sensors are disabled.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-3]	Latching auto reset setting end processing Latching auto reset setting start processing Latching autor reset setting start processing Latching autor reset setting ON/OFF selection processing Alarm self-maintenance auto reset check processing Alarm silence flag setting process Alarm silence setting start processing Alarm silence setting display processing selection processing Alarm silence setting display processing silence setting ONOFF selection processing ONOFF selection processing ONOFF selection processing	Perform latching auto reset setting ONOFF selection processing Perform attems selection processing Perform attems selection processing Perform attems selected theck processing Perform alaim silence flag setting process Perform alaim silence setting start processing Perform alaim silence setting end processing Perform alaim silence setting display processing Perform alaim silence setting ONOFF selection process	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Insert alarm silence setting in item number. 1. Insert alarm silence setting in item number. 2. Turnon FRAM write start flag. 1. Create a display of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number. 1. Do not let the screen flicker when sensor circuit fault, all sensors are disabled. 2. In the case of sensor FAIL during measurement, FAIL is displayed on the alarm silence sensor disable and FAIL SENSOR disable is made at the bottom of the screen.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-3] req[2-6-1-4] req[2-6-1-5]	Latching auto reset setting end processing Latching autor ness setting start processing Latching autor ness setting ON/OFF selection processing Latching autor ness testing ON/OFF selection processing Alarm silence setting start processing Alarm silence setting start processing Alarm silence setting end processing Alarm silence setting end processing Alarm silence setting of splay processing Alarm silence setting display processing Alarm silence setting ON/OFF selection process Initial sensor fault display	Perform latching auto reset setting ONOFF selection processing Perform atms self-maintenance auto reset check processing Perform alarm self-maintenance auto reset check processing Perform alarm silence flag setting process Perform alarm silence setting start processing Perform alarm silence setting end processing Perform alarm silence setting display processing Perform alarm silence setting ONOFF selection process Perform initial sensor fault display	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 1. Put item number in item number. 1. Put item and the start flag. 1. Croate a display of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number. 1. Do not let the screen flicker when sensor circuit fault, all sensors are disabled. 2. In the case of sensor FAIL during measurement, FAIL is displayed on the abnormal sensor display and FAIL SENSOR display is made at the bottom of the screen. 3. In the case of the initial time sensor FAIL FAIL lost is displayed.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-3] req[2-6-1-4] req[2-6-1-5]	Latching auto reset setting end processing Latching auto reset setting start processing Latching autor reset setting start processing Latching autor reset setting ON/OFF selection processing Alarm self-maintenance auto reset check processing Alarm silence flag setting process Alarm silence setting start processing Alarm silence setting display processing selection processing Alarm silence setting display processing silence setting ONOFF selection processing ONOFF selection processing ONOFF selection processing	Perform latching auto reset setting ONOFF selection processing Perform attems selection processing Perform attems selection processing Perform attems selected theck processing Perform alaim silence flag setting process Perform alaim silence setting start processing Perform alaim silence setting end processing Perform alaim silence setting display processing Perform alaim silence setting ONOFF selection process	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 2. Tumon FRAM write start flag. 1. Create a disjoy of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number. 1. Do not let the screen flicker when sensor circuit fault, all sensors are disabled. 2. In the case of sensor FAL Quiring measurement, FALL is displayed on the screen. 3. In the case of the infall time sensor FALL FALL 081 is displayed. 1. In case of RTC error, display FALL BATTER. 2. In case of TC error, display FALL BATTER. 2. In case of TC error, display FALL BATTER.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-4] req[2-6-1-5] req[3-1-2-1]	Latching auto reset setting end processing Latching autor ness setting start processing Latching autor ness setting ON/OFF selection processing Latching autor ness testing ON/OFF selection processing Alarm silence setting start processing Alarm silence setting start processing Alarm silence setting end processing Alarm silence setting end processing Alarm silence setting of splay processing Alarm silence setting display processing Alarm silence setting ON/OFF selection process Initial sensor fault display	Perform latching auto reset setting ONOFF selection processing Perform atms self-maintenance auto reset check processing Perform alarm self-maintenance auto reset check processing Perform alarm silence flag setting process Perform alarm silence setting start processing Perform alarm silence setting end processing Perform alarm silence setting display processing Perform alarm silence setting ONOFF selection process Perform initial sensor fault display	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 1. Put item number in item number. 2. Turnon FRAM write start flag. 1. Create a display of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number. 1. Do not let the screen flicter when sensor circuit fault, all sensors are disabled. 2. In the case of sensor FAIL during measurement, FAIL is displayed on the abnormal sensor display and FAIL SENSOR display is made at the bottom of the screen. 3. In the case of the initial time sensor FAIL_FAIL 081 is displayed. 1. In case of Datery FAIL during real start part of the case of the initial time sensor FAIL_FAIL 081 is displayed. 2. In case of Core FAIL during results and the bottom of the screen. 3. In the case of the abnormalities, display FAIL CLOCK. 3. In case of Other abnormalities, display FAIL CLOCK. 3. In case of Other abnormalities, display FAIL CLOCK. 3. In case of the abnormalities, display FAIL SYSTEM.	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-3] req[2-6-1-4] req[2-6-1-5]	Latching auto reset setting end processing Latching autor ness setting start processing Latching autor ness setting ON/OFF selection processing Latching autor ness testing ON/OFF selection processing Alarm silence setting start processing Alarm silence setting start processing Alarm silence setting end processing Alarm silence setting end processing Alarm silence setting of splay processing Alarm silence setting display processing Alarm silence setting ON/OFF selection process Initial sensor fault display	Perform latching auto reset setting ONOFF selection processing Perform atms self-maintenance auto reset check processing Perform alarm self-maintenance auto reset check processing Perform alarm silence flag setting process Perform alarm silence setting start processing Perform alarm silence setting end processing Perform alarm silence setting display processing Perform alarm silence setting ONOFF selection process Perform initial sensor fault display	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 1. Put item number in item number. 2. Tumon FRAM write start flag. 1. Create a display of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number. 1. Du not let the screen flicker when sensor circuit flait, all sensors are disabled. 2. In the case of sensor FAIL during measurement, FAIL is deplayed on the abnormal silence setting. 3. In the case of the initial time sensor FAIL FAIL 081 is displayed. 3. In case of the retain time sensor FAIL FAIL 081 is displayed. 2. In case of the retain control of the screen. 3. In case of the retain control of the screen. 3. In case of the retain control of the screen. 3. In case of the retain control of the screen. 3. In case of the retain control of the screen. 3. In case of the retain controlling screen from the screen. 4. Display numbers corresponding to each abnormality. 4. Display numbers does not correspond to the above, if the sensor is abnormal,	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-4] req[2-6-1-5] req[3-1-2-1]	Latching auto reset setting end processing Latching autor ness setting start processing Latching autor ness setting ON/OFF selection processing Latching autor ness testing ON/OFF selection processing Alarm silence setting start processing Alarm silence setting start processing Alarm silence setting end processing Alarm silence setting end processing Alarm silence setting of splay processing Alarm silence setting display processing Alarm silence setting ON/OFF selection process Initial sensor fault display	Perform latching auto reset setting ONOFF selection processing Perform atms self-maintenance auto reset check processing Perform alarm self-maintenance auto reset check processing Perform alarm silence flag setting process Perform alarm silence setting start processing Perform alarm silence setting end processing Perform alarm silence setting display processing Perform alarm silence setting ONOFF selection process Perform initial sensor fault display	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 2. Turnor FRAM write start flag. 1. Create a disjoy of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number. 1. Do not let the screen flicker when sensor circuit fault, all sensors are disabled. 2. In the case of sensor FAIL during measurement, FAIL is displayed on the shormal sensor display and FAIL SENSOF display is made at the bottom of the screen. 3. In Dec alard of the Control of the Setting of the Settin	
req[2-3-1-3] req[2-3-1-4] req[2-3-1-5] req[2-3-1-5] req[2-6-1-1] req[2-6-1-2] req[2-6-1-3] req[2-6-1-4] req[2-6-1-5]	Latching auto reset setting end processing Latching autor ness setting start processing Latching autor ness setting ON/OFF selection processing Latching autor ness testing ON/OFF selection processing Alarm silence setting start processing Alarm silence setting start processing Alarm silence setting end processing Alarm silence setting end processing Alarm silence setting of splay processing Alarm silence setting display processing Alarm silence setting ON/OFF selection process Initial sensor fault display	Perform latching auto reset setting ONOFF selection processing Perform atms self-maintenance auto reset check processing Perform alarm self-maintenance auto reset check processing Perform alarm silence flag setting process Perform alarm silence setting start processing Perform alarm silence setting end processing Perform alarm silence setting display processing Perform alarm silence setting ONOFF selection process Perform initial sensor fault display	1. Put ONOFF replacement processing in item number. 1. Return alarm action. 1. Assign ONOFF to the alarm silence flag. 1. Insert alarm silence setting in item number. 1. Put item number in item number. 1. Put item number in item number. 2. Tumon FRAM write start flag. 1. Create a display of the ONOFF setting menu corresponding to the alarm silence setting. 1. Put ONOFF replacement processing in item number. 1. Du not let the screen flicker when sensor circuit flait, all sensors are disabled. 2. In the case of sensor FAIL during measurement, FAIL is deplayed on the abnormal silence setting. 3. In the case of the initial time sensor FAIL FAIL 081 is displayed. 3. In case of the retain time sensor FAIL FAIL 081 is displayed. 2. In case of the retain control of the screen. 3. In case of the retain control of the screen. 3. In case of the retain control of the screen. 3. In case of the retain control of the screen. 3. In case of the retain control of the screen. 3. In case of the retain controlling screen from the screen. 4. Display numbers corresponding to each abnormality. 4. Display numbers does not correspond to the above, if the sensor is abnormal,	

req[3-1-5-1]	Reset of fault alarm	Perform reset of fault alarm	The ON/OFF flag is set to the fault alarm flag.	
req[3-1-5-2]	Initialize gas related abnormality flag Initial reset resetable alarm reset	Initialize gas related abnormality flag Perform initial reset resetable alarm reset	Initialize sensor abnormality. Cancel the flash abnormality of the equipment status information,	
req[3-1-5-3]	processing Resettable alarm cancellation	processing Perform Resettable alarm cancellation processing	clock abnormality, backup battery fault. 1. Resets flash abnormality of device status information, clock abnormality,	
req[3-1-5-4] req[3-2-1-1]	processing FRAM error flag ON processing	Perform Resettable alarm cancellation processing Performs FRAM error flag setting processing	Resets hash abnormality of device status information, clock abnormality, backup battery abnormality, pump abnormality, flow rate abnormality. Call FRAM error flag ON processing.	
req[3-2-1-2]	Range check of FRAM (Check the effective value)	Perform range check of FRAM (check the effective value)	If the device status is FRAM error, return NG. If the device status is not FRAM abnormality, execute processes 2 to 4 below. When each sensor is valid, check the range of the alarm point and the range of the concentration calculation parameter If the range check result is NG, turn on the FRAM error flag and set the range check result to NG.	
see[2 2 4 2]	1 sec interrupt processing for self	Perform 1 sec interrupt processing for self diagnosis	Return the range check result. Add 24 hour counting timer. If the 24-hour count timer has passed 24 hours, initialize the timer and turn on	
req[3-2-1-3]	diagnosis Self-diagnosis treatment after	Perform self-diagnosis processing after 24 hours	If the 24-hour count timer has passed 24 hours, initialize the timer and turn on the self-diagnosis flag for 24 hours. 1. When the 24-hour self-diagnosis flag is ON, perform the following processes 2 to 10.	
req[3-2-1-4]	24 hours	To roun designated processing and = 1 round	2. Turnoff self-diagnosis flag for 24 hours. 3. Call ROM, hock start processing. 4. Call the SUM calculation start process of the sensor MCU. 5. Perform RAM chack start processing' (6. If RFAM updating is not underway, the following processes 7 to 10 are executed. 7 Call the RAM check process of the nonvolatile record setting part every 24 hours. 8. When the RAM check result is OK, the RAM abnormality flag ON processing. 9. When the RAM check result is NO, the RAM abnormality flag ON processing. 10. Call FERAM update flag ON processing.	
req[3-2-1-5]	FRAM abnormality flag ON processing	Performs FRAM error flag setting processing	When the ONOFF setting flag is OFF, the FRAM error flag is turned off. When the ONOFF setting flag is ON, the FRAM error flag is set ON and the error code substitution process is called.	
req[3-2-1-6]	RAM abnormality flag ON processing	Performs RAM abnormality flag setting processing	 When the ONOFF setting flag is OFF, the RAM abnormality flag is turned off. When the ONOFF setting flag is ON, the RAM abnormality flag is turned on and the error code substitution process is called. 	
req[3-2-1-7]	1st alarm point range check	Perform 1st alarm point range check	I. If st alam point is OFF concentration, OK is returned. Call the range check processing with the lower limit as the minimum value of the alam point and the upper limit as the 2nd alam point. In the case of oxygen, call the range check process with the lower limit set as the 2nd alam point and the upper limit as the L warning maximum value.	
req[3-2-1-8]	2nd alarm point range check	Perform 2nd alarm point range check	 When the 2nd alarm point is OFF concentration, Ok is returned. Call the range check processing with the lower limit as the 1st alarm point and the upper limit as the 3rd alarm point. In the case of oxygen, call the range check processing with the lower limit as the L warning minimum value and the upper limit as the 1st alarm point. 	
req[3-2-1-9]	3rd alarm point range check	Perform 3rd alarm point range check	If the 3rd alarm point is OFF concentration, OK is returned. Call the trange check processing with the lower limit set as the 2rd alarm point and the upper limit as the alarm point maximum value. In the case of oxygen, call the range check processing with the lower limit as	
req[3-2-1-10]	Range check (alarm point)	Perform a range check (alarm point)	the H alarm minimum value and the upper limit as the H alarm maximum value. 1. Call 1st, 2nd, 3rd, STEL, TWA range check processing of the specified gas number. 2. Return the range check result.	
req[3-2-1-11]	Range check (concentration calculation parameter)	Perform a range check (concentration calculation parameter)	 Call full-scale, digit, zero coefficient, span coefficient range check processing of the specified gas number. 	
	Digit range check	Perform digit range check	Return the range check result. NG is returned if the digit does not match the gas default value.	
req[3-2-1-12]	Range check (FLOAT)	Perform a range check (FLOAT)	If the check value is larger than the check value upper limit or less than the check value lower limit, NG is returned.	7
req[3-2-1-14]	Full scale range check	Perform full scale range check	NG is returned if the full scale value does not match the gas default value.	
req[3-2-1-15]	Range check (U_LNG)	Perform a range check (U_LNG)	If the check value is larger than the check value upper limit or less than the check value lover limit, NG is returned.)
req[3-2-1-16]	Span coefficient range check	Perform span coefficient range check	The range is checked with the lower limit value as the span coefficient minimum value and the upper limit value as the span coefficient maximum value.	
req[3-2-1-17]	STEL alarm point range check	STEL Alarm point Perform range check	When the STEL alarm point is OFF concentration, OK is returned. Call the range check processing with the lower limit as the STEL alarm minimum value.	
req[3-2-1-18]	TWA alarm point range check	Perform TWA alarm point range check	and the upper limit as the STEL alarm point maximum value. 1. When the TWA alarm point is OFF concentration, OK is returned. 2. Call the range check processing with the lower limit as the TWA alarm minimum value.	
req[3-2-1-19]	Zero coefficient range check	Perform zero coefficient range check	and the upper limit as the TWA alarm point maximum value. 1. Check the range with the lower limit value as the zero coefficient minimum value and the upper limit value as the zero coefficient minimum value.	
req[3-2-1-20]	RAM error flag ON processing	Performs RAM error flag setting processing	When the check result is OK, the RAM abnormality flag is turned off. If the check result is NG, turn on the RAM error flag.	
req[3-2-1-21]	RAM check process at startup	Perform RAM check processing at startup	I. Initialize the OUTPUT value with success I. Initialize the RAM check phase flag 3. Initialize the RAM check retry counter 4. Call the RAM check start process 5. Perform the following processes to 17 for the number of times that the used RAM area can be checked 3 times or more. 6. Call the RAM check process 7. If the result of the RAM check process is success or failure, exit the loop process of process process result of the RAM check process is unsuccessful, the OUTPUT value will be prevented to the RAM check process is unsuccessful, the OUTPUT value will be prevented to the RAM check process is unsuccessful, the OUTPUT value will be	
req[3-2-1-22]	ROM check end confirmation processing	Perform ROM check end confirmation processing	Returns OFF if the ROM check phase has ended. Return on if the ROM check phase is not finished.	
req[3-2-1-23]	ROM check processing	Perform ROM check processing	1. If the ROM check phase is not OFF, the following processes 2 to 6 are executed. 2. When the ROM check phase is finished, the SUM values are compared in case of SUM mismatch, turn on the ROM feet of bit. 3. If the ROM check phase is not finished, carry out the following. 4. ROM check When the SUM area phase is started, initialize the SUM value. 5. Calculate the SUM value for the area and add ROM check SUM area phase. 6. ROM check When the SUM area phase and, the ROM check phase is finished.	
req[3-2-1-24]	ROM check process at startup ROM check start processing	Perform ROM check process at startup Perform ROM check start processing	Call ROM check start processing. Perform ROM check for each ROM area. Initiative the BOM check hotses.	
req[3-2-1-25]	RAM check processing at startup	Perform RAM check processing at startup	Initiatize the RVM cneck prass. RVM chock Initiatize SUM was phase. Initiatize the OUTPUT value with success Step the RAM party error function Gall the RAM party error function Gall the RAM party error function Total the RAM party error function Total the RAM party error function Gall the RAM party error function Total the RAM party error function Total the RAM party error function Gall the RAM theck corcess	
	Partial calculation processing	Perform partial calculation processing of ROMSUM	6. If the result of the RAM check process is success or failure, exit the loop process of process. 7. If the result of the RAM check process fails, the OUTPUT value fails. 1. This SUM value from the start address to the end address is added to	
	of ROMSUM	Perform ROMSUM assignment processing	the base SUM value. 2. Return base SUM value. 1. Returns the SUM calculation result of ROM.	
req[3-2-1-29]	SUM check in progress flag ROM check processing	Acquire SUM check in progress flag Perform ROM check processing	1. Return ROM check phase. 1. When the ROM check phase is started, the SUM value is initialized. 2. If the ROM check phase is not finished, carry out the following. 3. Compute the SUM value and set the ROM check phase to the next phase. 4. When the ROM check phase is completed, the SUM values are compared.	
	SUM check in progress flag start	Perform the SUM check in progress flag start	4. When the CVM check phase is completed, the SUM values are compared. 5. In case of a match, CN is returned. 6. In case of mismatch, return NG. 7. Returns 2 if the ROM check phase is not the end. 1. Set ROM check phase to start.	
req[3-2-1-31]	substitution processing FAIL check processing	substitution processing Perform FAIL check processing	Perform the following processing 2 to 6 corresponding to the confirmation type.	
req[3-2-1-32]		, ,	2. If device status is abnormal or sensor abnormality, ON is returned. 3. If the equipment status is battery abnormality, return on. 4. If the equipment status is a system fault, return on. 5. If the device status is a resettable alarm, return on.	
req[3-2-2-1]	Backup battery abnormality flag setting processing	Perform backup battery error flag setting processing	When the ONDF setting flag is OFF, the backup battery abnormality flag is turned of. When the ONDFF setting flag is ON, the backup battery abnormality flag is turned on and the error cords substitution process is considerated.	
req[3-2-2-2]	CLOCK error flag setting processing	Perform CLOCK error flag setting processing	and the error code substitution process is called. 1. When the ONOPF setting flag is OFF, the CLOCK abnormality flag is turned off. 2. When the ONOPF setting flag is ON, the CLOCK abnormality flag is set ON and the error code substitution process is called.	
req[3-2-2-3]	Check date and time (check unlikely calendar value)	Check date and time (check unlikely calendar value)	1. If the year is over 2089 years it will return an error. 2. If the morth is not 1 to 1 2. it will return an error. 3. If the day is anything other than 1 to 31 it will return an error. 4. If the hour is 24 or more, it returns an error. 5. If minutes are non-10 58. It returns an error.	
rea[3-2-2-4]	Confirm whether it is a leap year	Confirm whether it is a leap year	If seconds are non-0 to 59. an error is returned. If the specified year is a leap year, OK is returned.	
req[3-2-2-4]	Acquire two date and time of RTC and check whether the error is less than 60 seconds	Get two RTC dates and times and check if the error is less than 60 seconds	(Year divisible by 4 and divisible by 100, year divisible by 4 · 100 · 4000). 1. every near divisible by 4 · 100 · 4000. 1. Every near the distance seconds. 2. If the difference between the date and time data is less than 60 seconds, OK is returned. 3. If the difference between the date and time data is 60 seconds or more, NS is returned.	
	unan ou accordă	1	jo. in the universities between the date and time data is ob seconds or more, NG is returned	1

req[3-2-3-1]	Circuit voltage error flag ON processing	Perform circuit voltage error flag ON processing		When the ON/OFF flag is OFF, the circuit voltage error flag is turned off. When the ON/OFF flag is ON, the circuit voltage error flag is turned on and	
	Processing every 250msec for circuit	Processing every 250msec for circuit reference		the error code substitution process is called. 1. Get the circuit voltage error flag.	
req[3-2-3-2]	reference voltage control	voltage control		If the circuit voltage error flag is abnormal, set the circuit voltage error.	
	HCV voltage diagnosis invalid flag	Perform HCV voltage diagnosis invalid flag		Assign the initial value to the HCV voltage diagnosis invalid flag.	
req[3-2-3-3]	initialization processing	initialization processing			
req[3-2-3-4]	HCV voltage diagnosis invalid flag setting processing	Perform HCV voltage diagnosis invalid flag setting processing		Assign invalid to the HCV voltage diagnosis invalid flag.	
	Circuit voltage diagnosis processing	Perform circuit voltage diagnosis processing		Perform the following processing when the 24bitA/D initial AD acquisition flag is OFF.	
	Onean voltage diagnosis processing	T chain chair votage diagnosis processing		2. Get the A/D value of each circuit voltage (SV, MV, ECV1, ECV2, ECV3, HCV, PZF). 3. If each circuit voltage (SV, MV, ECV1, ECV2, ECV3, HCV, PZF) is out of the threshold.	
req[3-2-3-5]				range, set an abnormal flag. However, if the HCV voltage diagnosis invalid flag is valid, the	
	Circuit values array action arrayaning	Perform circuit voltage error setting processing		voltage diagnosis is not performed. 1. Set the circuit voltage error flag.	
req[3-2-3-6]	Circuit voltage error setting processing	Perform circuit voltage error setting processing		Set the circuit voltage error hag.	
	Check thermistor fault every 1 sec	Perform thermistor fault check every 1 sec		When the temperature sensor of the sensor MCU is in error, turn on the thermistor	
req[3-2-4-1]	Sensor circuit fault flag ON	Perform sensor circuit error flag setting processing		abnormality flag. 1. When the ON/OFF setting flag is OFF, the sensor circuit abnormality flag is turned off.	
req[3-2-4-2]	processing	r anomi sensor circuit and mag setting processing		2. When the ON/OFF setting flag is ON, the sensor circuit abnormality flag is turned on	
	Thermistor abnormality flag ON	Perform a thermistor error flag setting process		and the error code substitution process is called. 1. When the ON/OFF setting flag is OFF, the thermistor error flag is turned off.	
req[3-2-4-3]	processing			When the ON/OFF setting flag is ON, the thermistor abnormality flag is turned on and the error code substitution process is called.	
req[3-2-4-4]	Substitution of sensor MCU status flag			Return sensor MCU status flag.	
req[3-2-4-5]	sensor of RL78	Perform error check processing of temperature sensor of RL78		RL78 If the temperature sensor A/D value is out of the threshold, return NG.	
req[3-2-4-6]	Temperature sensor self-diagnosis permission processing of RL78	Perform temperature sensor self-diagnosis permission processing of RL78		Turnon self-diagnosis permission flag.	
reg[3-2-5-1]	Sensor fault check every 1 sec	Perform sensor fault check every 1 sec		When the flammable sensor is valid or the flammable sensor is broken, substitute the error code of the sensor FAIL.	
-	Substitution of calibration system	Perform substitution of calibration system error flag		For each case of fault contents AIR calibration, SPAN calibration, BUMP,	
	error flag			the following processing is performed. 2. When the ON/OFF flag is OFF, the calibration abnormality flag is turned off.	
req[3-2-5-2]				When the ON/OFF flag is ON, execute the following. If the sensor is valid and there is no sensor trouble, carry out the following.	
	Cubath day of	Substitute the sensor fault flag		Turnon the calibration abnormality flag and call the fault detail code substitution process.	
req[3-2-5-3]	Substitution of sensor fault flag	Substitute the sensor fault flag		If the sensor is valid and there is no sensor trouble, carry out the following. During measurement, during DISP mode, sensor error is set as sensor status.	
.aq[o-z-o-o]				Otherwise, set the initial sensor error to the sensor status. Call error code substitution processing.	
req[3-2-5-4]	Flammable sensor self-diagnosis permission processing	Perform flammable sensor self-diagnosis permission processing		Turnon flammable sensor self-diagnosis permission flag.	
	Flammable sensor disconnection	Perform flammable sensor disconnection detection		When the flammable sensor self-diagnosis permission flag is ON, the following processes	
req[3-2-5-5]	detection			2 to 3 are executed. 2. When the flammable sensor A/D value is above the check threshold, OK is returned.	
reu[0-2-0-0]				When the flammable sensor A/D value is less than or equal to the check threshold value, NG is returned.	
	Connec FAIL and Connection	Desform consecutive and the second se		Returns sensor disconnection detection result.	
req[3-2-5-6]	Sensor FAIL confirmation processing	Perform sensor FAIL confirmation processing		Perform the following for all sensors. If the sensor is valid, carry out the following.	
	All sensors Initial sensor abnormality	Perform all sensors Initial sensor abnormality		Returns ON if sensor status is not initial abnormality and sensor error. Perform the following for all sensors.	
req[3-2-5-7]	confirmation processing	confirmation processing		If the sensor is valid and the sensor status is not initial abnormality, it returns ON. If the device status is abnormal on the sensor circuit, return off.	
	Initial sensor abnormality	Perform initial sensor abnormality confirmation		When the equipment status is abnormal sensor circuit, ON is returned.	
req[3-2-5-8]	confirmation processing	processing		If the sensor is valid for all sensors and the sensor status is initial fault, it returns ON.	
req[3-2-6-1]	Acquisition processing of EC connection check in progress flag	Perform acquisition processing of EC connection check in progress flag		Return EC connection checking flag.	
req[3-2-6-2]	Obtaining the difference A/D of	Obtaining the difference A/D of EC connection check		Return the difference A/D value.	
	EC connection check Every 10 msec processing of EC	Perform every 10 msec processing of EC connection		When the EC connection check middle flag is active, the EC connection checking flag	
	connection check	check		is added 2. When the EC connection checking flag is the last, the EC connection checking flag is	
req[3-2-6-3]				turned off and the EC connection check calculation enabling flag is turned on. 3. When EC connection checking flag starts pulse operation, call EC connection checking	
				port ON processing. 4. If the concentration calculation buffer update halt count is non-0, the concentration	
				calculation buffer update stop count is subtracted.	
req[3-2-6-4]	At EC connection check, A/D acquisition processing stop flag	Acquire at the EC connection check, the A/D acquisition processing stop flag for concentration		 If the concentration calculation buffer update stop count is non-0 and the sensor check target channel, stop ON is returned. 	
-	for concentration calculation A/D acquisition processing of EC	calculation is acquired Perform A/D acquisition processing of EC connection		When the EC connection check middle flag is active, the A/D value is substituted into	
req[3-2-6-5]	connection check	check		the EC connection check buffer.	
	Start processing of EC connection check (H2S/CO)	Perform start processing of H2S/CO of EC connection check		 When the EC connection check middle flag is OFF, execute the following according to the H2S/CO flag. 	
req[3-2-6-6]				Call the A/D buffer clear processing of EC connection check. Set buffer update update stop count for concentration calculation.	
	Differential A/D calculation	Difference A/D calculation processing of EC		Turnon the EC connection checking flag. When the EC connection check calculation permission flag is ON, execute the following.	
reg[3-2-6-7]	processing of EC connection check	connection check is performed		Call the 2. 24 bit A/DmV conversion processing and calculate the EC connection check	
				A/D difference value. 3. Turn EC connection check calculation enable flag OFF.	
req[3-2-6-8]	Clear the A/D buffer for EC connection check	Clear the A/D buffer for EC connection check		Clear EC connection check buffer of target sensor/	
req[3-2-6-9]	ON/OFF of EC connection check port	Turn ON/OFF the port of EC connection check		Set the ON/OFF flag to the connection check port of the target sensor.	
-	EC connection check RAM data	Perform EC connection check RAM data		Initialize all RAM used for connection check.	
req[3-2-6-10]	initialization processing PGA fixation flag of EC connection	initializationprocessing Acquire PGA fixation flag of EC connection		Confirm channel.	
	check A/D	check A/D		2. For flammables, turn off the flag. 3. For oxygen, if the connection check flag = ON and if the const flag = ON for fixation flag.	
req[3-2-6-11]				turn on the flag.	
				 For other gases, if the connection check flag = ON and if the const flag = ON for fixation flag, turn on the flag. 	
req[3-2-6-12]	EC initial sensor check start processing	Perform EC initial sensor check start process		Set EC sensor check retry count. Call EC sensor check start processing.	-
	10 msec interruption processing of EC connection check	Perform 10 msec interruption processing of EC		If the sensor check start count is non-0, the sensor check start count is subtracted.	
	GI EC COTTRECTION CRECK	connection check		When the sensor check start count is 0, the sensor check start process is called. EC sensor check A/D comparison start timing If the count is non-0, execute	
				the following. 4. EC sensor check A/D comparison start timing When the count is 1. it calls	
req[3-2-6-13]				the A/D check processing of the sensor. 5. If the A/D check result is an error, subtract the retry count.	
				When the retry count is 0, the EC sensor check result is made abnormal. When the retry count is other than 0, the EC sensor check start start timing count is	
				set to 0. 8. EC sensor check A/D comparison start timing count .	
	1 sec interruption processing of	Perform 1 sec interruption processing of EC		1. If the EC sensor check start timing count is non-0, the EC sensor check start timing	
reg[3-2-6-14]	EC connection check	connection check		count is subtracted. 2. When EC sensor check start timing count is 0 and gas alarm is not in progress,	
.oq[J=Z=0=14]				EC sensor check start process is called. 3. When the EC sensor check retry count is 0, EC sensor check retry count is set.	
req[3-2-6-15]	EC consor check start process at the	Perform FC sensor check start processing at start		Set EC sensor check start timing count. Set the sensor check start count.	
.oq[2-0-15]	EC sensor check A/D confirmation	Perform EC sensor check start processing at startup Perform EC sensor check A/D confirmation		If the target sensor is valid and the sensor is not abnormal, carry out the following.	
req[3-2-6-16]	processing	processing		If the sensor output is lower than the threshold, return error flag.	
	EC sensor check start processing	Perform EC sensor check start process		Set check start flag of EC sensor.	
req[3-2-6-17]				Check EC sensor Set A/D comparison start timing count.	
req[3-2-6-18]	EC sensor check abnormality substitution process	PerformEC sensor check abnormality substitution processing		When the sensor is valid for the sensor error sensor, set the trouble code of each sensor.	
req[3-2-6-19]	Acquire EC connection check start flag EC connection check start flag	Acquire EC connection check start flag Perform EC connection check start flag setting	-	Returns the EC connection check start flag according to the gas type flag. The check start flag is set to the EC connection check start flag corresponding to	
req[3-2-6-20]	setting processing	processing		the gas type flag.	
req[3-2-7-1]	Battery voltage abnormality flag ON processing	Perform battery voltage abnormality flag setting processing		When the ON/OFF flag is OFF, the battery voltage abnormality flag is turned off. When the ON/OFF flag is ON, the battery voltage abnormality flag is turned on and	
ļ .		Perform low flow rate flag setting processing		the error code substitution process is called. 1. When the ON/OFF flag is OFF, the low flow rate flag is turned off.	
req[3-2-9-1]		- Ing saming processing		2. When the ON/OFF flag is ON, the low flow rate flag is turned on and the error code substitution process is called.	
	Pump error flag ON processing	Perform pump error flag setting processing		When the ON/OFF flag is OFF, the pump error flag is turned off.	
req[3-2-10-1]				When the ON/OFF flag is ON, the pump error flag is turned on and the error code substitution process is called.	
req[4-1-1-1]	BUMP result concentration acquisition Acquisition process of SDM serial	Acquire BUMP result concentration Perform acquisition process of SDM serial used for		Return BUMP result concentration. Create character data corresponding to SDM serial number.	-
req[4-1-1-2]	used for BUMP	BUMP		• •	
req[4-1-1-3]	Setting processing of SDM serial used for BUMP	Perform setting process of SDM serial used for BUMP		Create character data corresponding to SDM serial number.	

	BUMP alarm necessary judgment processing	Determine whether BUMP alarm is necessary	 When the bumpable gas is used and the BUMP test is necessary, the judgment result is turned on. 	
req[4-1-1-4]	5		When bumpable gas is used and span calibration is necessary, turn the judgment result ON.	
	Confirm whether BUMP gas setting	Confirm whether BUMP gas setting can be selected	Returns the judgment result. Return gas or confirmation process that can be displayed.	
req[4-1-1-5]	can be selected (for ZIPC)			
req[4-1-1-6]	BUMP test result deend processing	Perform BUMP test result deend processing	 When it is a gas that can be BUMPed, a BUMP test OK / NG deend process is performed. 	
requir i oj			Record the result of BUMP execution. Record BUMP of logger function.	
req[4-1-1-7]	BUMP test time end confirmation processing	Confirm whether BUMP test time is over	If the bump test count timer is not 0, turn on the result. When the bump test count timer is 0, turn off the result.	
	BUMP test gas concentration display	Perform BUMP test gas concentration display	Return results. In case of the ESCAPE display, "ESCAPE" is displayed.	
req[4-1-1-8]	processing	processing	If it is one of the AUTO calibration groups, character data corresponding to the AUTO	
			calibration group is created.	
req[4-1-1-9]	BUMP result display processing	Perform BUMP result display processing	Create character data corresponding to BUMP result.	
	BUMP test in progress display	Perform BUMP test in progress display processing	Create character data corresponding to BUMP test.	
req[4-1-1-10]	processing		Convert the corresponding numerical value to character data during BUMP test. Resh the time.	
	BUMP gas setting selected Group	Perform acquisition processing of BUMP gas setting	Return item number.	
req[4-1-1-11]	acquisition processing	selected group		
req[4-1-1-12]	BUMP test time acquisition processing BUMP test start processing	Acquire the BUMP test time Perform BUMP test start processing	Calculate bump test count timer from bump time seconds. If the gas setting is valid and the group being selected is the same as the group selected,	
			turn the result on. 2. Break when the result is ON.	
req[4-1-1-13]			Set item number: Turnoff up / down numerical value setting.	
			Set BUMP result concentration to OFF concentration.	
req[4-1-1-14]	BUMP gas setting selection processing	Perform BUMP gas setting selection processing	 If the up / down numeric value change setting is OFF and not the ESCAPE display, select the group. 	
lod[4 1 1 14]			If there is a setting gas in the group, set the BUMP gas. When numerical up / down change setting is ON, set it to ESCAPE.	
	BUMP gas setting selection next item selection processing	Perform BUMP gas setting selection next item selection processing	If the BUMP gas setting selection is not the ESCAPE display, select the group.	
req[4-1-1-15]			2. If there is a setting gas in the group, set the BUMP gas.	
	BUMP result display selection	Perform BUMP result display selection processing	When BUMP calibration is necessary and BUMP calibration is ON, the flag is turned on.	
req[4-1-1-16]	processing		When BUMP calibration is necessary and BUMP calibration is OFF, the flag is turned off.	
1	BUMP test Executable gas or confirmation processing	BUMP test Performs confirmation processing for gas that can be executed	 When all of the following conditions 2 to 5 are satisfied, the execution result is set to ON. Gas setting is valid. 	
req[4-1-1-17]			Calibration concentration is ON. The sensor is normal.	
			The selected group matches the set group. Return execution result.	
	BUMP test OK/NG deend	Perform BUMP test OK / NG deend	In the case of O2, the following processes 2 to 4 are performed.	
	processing		Calculate the difference in calibration concentration from 20. 9. Calculate acceptable concentration.	
			Substitute the calibration concentration. When the concentration value is lower than the allowable upper limit value,	
			the concentration value is positive, and the concentration is positive and equal to or higher than the allowable lower limit value, OK is returned.	
			If the concentration value is higher than the allowable upper limit value and the concentration value is more than the allowable lower limit value and	
req[4-1-1-18]			the concentration is negative, OK is returned. 7. In the case of not being oxygen, calculate the allowable concentration and	
			substitute the calibration concentration. 8. When the concentration value is lower than the allowable upper limit value,	
			the concentration value is positive, and the concentration is positive and equal	
			to or higher than the allowable lower limit value, OK is returned 9. If the concentration value is higher than the allowable upper limit value and	
			the concentrationvalue is more than the allowable lower limit value and the concentration is negative, OK is returned.	
	BUMP execution result record processing	Perform Perform recording processing of BUMP execution result	BUMP result concentration, BUMP result minus flag, BUMP result over flag, BUMP result minus over flag are acquired.	
			When the BUMP is successful, the following processes 3 to 7 are executed. Substitute current time.	
req[4-1-1-19]			Substitute concentration at BUMP execution. Turnoff the BUMP fault flag.	
			6. Acquire the SDM serial used for BUMP. 7. Turnon FRAM write start flag.	
			If BUMP fails, set the BUMP fault flag to ON.	
	BUMP flammable limit display	BUMP Determine whether flammable restriction	1. When all of the following conditions 2 to 6 are satisfied, the judgment result is turned on.	
	necessity judgment processing	indication is necessary	It is a gas that can be bumped.	
req[4-1-2-1]	necessity judgment processing	indication is necessary	2. It is a gas that can be bumped. 3. Calibration ON/OFF setting after bump fault is ON. 4. Bump calibration is successful.	
req[4-1-2-1]	necessity judgment processing	indication is necessary	2. It is a gas that can be bumped. 3. Calibration ONICPT setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit.	
req[4-1-2-1]	necessity judgment processing	indication is necessary	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the judgment result.	
	necessity judgment processing BUMP calibration processing for communication	Indication is necessary Perform BUMP calibration processing for communication	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP section are recorded.	
req[4-1-2-1]	necessity judgment processing BUMP calibration processing for	Indication is necessary Perform BUMP calibration processing for	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP execution are recorded. 2. Gas setting is valid. 3. Calibration concentration is ON.	
	necessity judgment processing BUMP calibration processing for communication	Indication is necessary Perform BUMP calibration processing for communication	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP execution are recorded. 2. Gas setting is valid. 3. Calibration concentration is ON. 4. The sensor is normal. 5. Record BUMP of logger function.	
	necessity judgment processing BUMP calibration processing for communication	Indication is necessary Perform BUMP calibration processing for	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP execution are recorded. 2. Gas setting is valid. 3. Calibration concentration is ON. 4. The sensor is normal. 5. Record BUMP of logger function. 1. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result.	
req[4-1-2-2]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration	Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the Slowing conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP execution are recorded. 2. Calibration concentration is ON. 4. The sensor is normal. 5. Record BUMP of logger function. 1. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result. 2. Return the confirmation result.	
req[4-1-2-2]	necessity judgment processing BUMP calibration processing for communication	Indication is necessary Perform BUMP calibration processing for communication	2. It is a gas that can be bumped. 3. Celibration ONOFF setting after bump fault is ON. 4. Bump ceilbration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Raturus the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP securion are recorded. 2. Gas setting is valid. 2. Gas setting is valid. 3. Record BUMP of logger function. 5. Record BUMP of logger function. 6. Record BUMP of logger function. 7. When the bumpble gas is used, if the BUMP test is necessary, turn on the confirmation result. 8. When the calibration ONOFF setting after the bump fault is ON, the confirmation result is turned on.	
req[4-1-2-2]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting	Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or I-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP securion are recorded. 2. Gas setting is valid. 3. Calibration concentration is ON. 5. Record BUMP of logger function. 7. Returns the judgment set is used, if the BUMP test is necessary, turn on the confirmation result. 1. When the the confirmation result. 1. When the calibration ONOFF setting after the bump fault is ON, the confirmation result is turned on. 2. When the calibration ONOFF setting after the bump fault is OFF, turn off the confirmation result is turned on. 2. When the calibration ONOFF setting after bump fault is OFF, turn off the confirmation result is turned on.	
req[4-1-2-2] req[4-1-2-3] req[4-1-2-4]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration time end	Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or I-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP secucion are recorded. 2. Gas setting is valid. 3. Calibration concentration is ON. 5. Record BUMP of logger function. 1. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result is turned on. 2. When the calibration ONOFF setting after the bump fault is OFF, turn off the confirmation result is turned on. 2. When the calibration ONOFF setting after bump fault is OFF, turn off the confirmation result is turned on. 3. Return the confirmation result. 3. Return the confirmation result.	
req[4-1-2-2]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing	Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or I-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP secucion are recorded. 2. Gas setting is valid. 3. Calibration concentration is ON. 5. Record BUMP of logger function. 5. Record BUMP of logger function. 7. Returns the judgment set is used, if the BUMP test is necessary, turn on the confirmation result. 1. When the the confirmation result. 1. When the calibration ONOFF setting after the bump fault is OFF, turn off the confirmation result is turned on. 2. When the calibration ONOFF setting after bump fault is OFF, turn off the confirmation result. 3. Return the confirmation result. 4. When the turn peclabration count timer is not 0, turn on the confirmation result. 5. When the bump calibration count timer is not 0, turn on the confirmation result. 6. When the bump calibration count timer is 0, turn of the confirmation result. 6. Return the confirmation result. 6. Return the confirmation result. 6. Return the confirmation result. 7. Return the confirmation count timer is 0, turn of the confirmation result. 8. Return the confirmation count timer is 0, turn of the confirmation result.	
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req[4-1-2-2] req[4-1-2-3] req[4-1-2-4] req[4-1-2-5] req[4-1-2-6]	BUMP calibration time end confirmation processing BUMP calibration setting confirmation BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing BUMP calibration time end confirmation processing BUMP calibration secution display processing BUMP calibration time acquisition processing	Perform BUMP calibration processing for communication Confirm processing of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing Perform BUMP calibration execution display processing	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the pitch gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the pitch set solid. 7. Returns the pitch set solid. 7. Returns the pitch set solid. 8. Calibration concentration is ON. 8. Calibration concentration is ON. 9. Record BUMP of logger function. 9. Record BUMP of logger function. 9. Record BUMP of logger function. 1. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result. 1. When the calibration ONOFF setting after the bump fault is ON, the confirmation result is turned on. 2. When the calibration ONOFF setting after bump fault is OFF, turn off the confirmation result. 9. When the cultimation result. 1. When the bump calibration count timer is not 0, turn on the confirmation result. 9. When the bump calibration count timer is not 0, turn on the confirmation result. 9. Return the confirmation result. 1. Start BUMP calibration. 1. Start BUMP calibration. 1. Start BUMP calibration.	
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req[4-1-2-2] req[4-1-2-3] req[4-1-2-4] req[4-1-2-5] req[4-1-2-6] req[4-1-2-7]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing BUMP calibration execution display processing BUMP calibration start processing BUMP calibration start processing BUMP calibration time acquisition processing BUMP calibration time acquisition processing	Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing Perform BUMP calibration execution display processing Perform BUMP calibration start processing Acquire the BUMP calibration start processing Acquire the BUMP calibration time	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustible gas setting is CH4 or I-C4H10. 6. In flammable limit. 7. Returns the judgment result. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP secucion are recorded. 2. Gas setting is valid. 3. Calibration concentration is ON. 5. Record BUMP of logger function. 1. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result is turned on. 2. When the calibration ONOFF setting after the bump fault is OFF, turn off the confirmation result is turned on. 2. When the calibration ONOFF setting after bump fault is OFF, turn off the confirmation result. 3. Return the confirmation result. 4. When the bump calibration count timer is not 0, turn on the confirmation result. 5. Return the confirmation count timer is not 0, turn on the confirmation result. 6. When the bump calibration count timer is not 0, turn on the confirmation result. 7. When the bump calibration count timer is not 0, turn on the confirmation result. 8. Return the confirmation result. 9. Return the confirmation count timer is not 0, turn on the confirmation result. 9. Return the confirmation count timer from calibration time seconds after bump fault and bump time seconds. 9. Limit and concentration. 9. Buther result concentration. 9. Buther result concentration. 9. Buther result concentration. 9. Limit and concentration	
req[4-1-2-2] req[4-1-2-3] req[4-1-2-4] req[4-1-2-6] req[4-1-2-6] req[4-1-2-8]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing BUMP calibration execution display processing BUMP calibration start processing BUMP calibration start processing BUMP calibration time acquisition processing BUMP calibration time acquisition processing	Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing Perform BUMP calibration execution display processing Perform BUMP calibration start processing Acquire the BUMP calibration start processing Acquire the BUMP calibration time	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combissible gas setting is CH4 or i-C4H10. 6. In flammable imm. 6. The combissible gas setting is CH4 or i-C4H10. 6. In flammable imm. 6. The combissible gas setting is CH4 or i-C4H10. 6. In flammable imm. 6. When sid of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP execution are recorded. 7. Cas setting is valid. 7. Cas setting is valid. 7. Cas setting is valid. 7. Cas setting is rormal. 7. Record BUMP of logger function. 7. Record BUMP of logger function. 7. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result. 7. When the calibration ONOFF setting after the bump fault is ON, the confirmation result result. 7. When the bump calibration count timer is not 0, turn on the confirmation result. 7. When the bump calibration count timer is not 0, turn on the confirmation result. 7. When the bump calibration count timer is not 0, turn on the confirmation result. 7. Start BUMP calibration. 7. Calculate the bump calibration count timer from calibration time seconds after bump fault and bump time seconds. 7. Acquire results 3 no 6 below. 7. BUMP result more flag. 8. BUMP result more flag.	
req[4-1-2-2] req[4-1-2-3] req[4-1-2-4] req[4-1-2-6] req[4-1-2-6] req[4-1-2-7] req[4-1-2-8]	BUMP calibration processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing BUMP calibration execution display processing BUMP calibration time acquisition processing BUMP calibration result recording processing BUMP/CAL success confirmation	Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing Perform BUMP calibration execution display processing Acquire the BUMP calibration rise Perform BUMP calibrati	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combissible gas setting is CH4 or i-C4H10. 6. In flammable imit. 6. In flammable imit. 7. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP execution are recorded. 7. Cas setting is valid. 7. Calibration concentration is ON. 7. The sensor is normal. 7. Record BUMP of logger function. 7. Record BUMP of logger function. 7. Record BUMP of logger function. 7. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result. 7. When the calibration ONOFF setting after the bump fault is ON, the confirmation result result in the calibration ONOFF setting after bump fault is OFF, turn off the confirmation result. 7. When the bump calibration count timer is not 0, turn on the confirmation result. 7. When the bump calibration count timer is not 0, turn on the confirmation result. 7. When the bump calibration count timer is not 0, turn on the confirmation result. 8. Return the confirmation result. 9. Return the confirmation result. 9. Return the confirmation count timer is not 0, turn on the confirmation result. 9. Return the confirmation result. 1. Start BUMP calibration. 2. Acquire results a 16 below. 3. BUMP result in this set when a bumpable gas and a BUMP failed das fails calibration. The	
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req[4-1-2-2] req[4-1-2-3] req[4-1-2-4] req[4-1-2-6] req[4-1-2-6] req[4-1-2-8]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing BUMP calibration time end confirmation processing BUMP calibration time acquisition processing BUMP/CALL success confirmation process after BUMP	Indication is necessary Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm necessity of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing Perform BUMP calibration execution display processing Perform BUMP calibration start processing Acquire the BUMP calibration result recording processing Perform BUMP calibration result recording processing Perform BUMP calibration result recording processing Perform BUMP calibration processing Perform BUMP calibration processing after BUMP Perform BUMP calibration processing after	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combissible gas setting is CH4 or i-C4H10. 6. In flammable imm. 6. The combissible gas setting is CH4 or i-C4H10. 6. In flammable imm. 6. The combissible gas setting is CH4 or i-C4H10. 6. In flammable imm. 6. The combissible gas setting is CH4 or i-C4H10. 6. In flammable gas in user discount of the BUMP setting and the result of the BUMP secution are recorded. 7. Cas setting is valid. 7. Cas setting is valid. 7. Cas setting is valid. 7. Cas setting is rormal. 7. Record BUMP of logger function. 7. Record BUMP of logger function. 7. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result. 7. When the calibration ONOFF setting after bump fault is ON, the confirmation result result in the calibration of the confirmation result. 7. When the bump calibration count timer is not 0, turn on the confirmation result. 8. Return the confirmation result. 9. When the bump calibration count timer is not 0, turn on the confirmation result. 9. When the bump calibration count timer is not 0, turn on the confirmation result. 9. Return the confirmation result. 1. Start BUMP calibration. 1. Start BUMP calibration. 1. Start BUMP calibration. 1. Start BUMP result minus fine gas the submap set of the current gas data. 2. Acquire results a 16 below. 2. Acquire results as the when a bumpable gas and a BUMP failure is OFF. 2. He the fetowing confitions are met. No. Sie substituted for the initial possible flag. 2. Let the fetowing confitions are met. No. Sie substituted for the initial possible flag. 2. He the fetowing confitions are met. No. Sie substituted for the initial possible flag. 2. Let the fetowing confitions are met. No. Sie substituted for the initial possible flag. 3. Let the fetowing confition are met. No. Sie substituted for the initial possible flag.	
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req[4-1-2-2] req[4-1-2-3] req[4-1-2-4] req[4-1-2-6] req[4-1-2-6] req[4-1-2-7] req[4-1-2-8] req[4-1-2-10] req[4-1-2-11]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing BUMP calibration time end confirmation processing BUMP calibration time end confirmation processing BUMP calibration secution display processing BUMP calibration secution display processing BUMP calibration time acquisition processing BUMP calibration time acquisition processing BUMP calibration time acquisition processing BUMP/CAL success confirmation processing after BUMP/CAL success BUMP calibration execution start processing BUMP calibration execution start processing BUMP calibration BUMP calibration ON/OFF setting display processing BUMP condition BUMP calibration ON/OFF setting end processing BUMP condition BUMP calibration ON/OFF setting end processing BUMP condition BUMP calibration ON/OFF setting end processing	Indication is necessary Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing Perform BUMP calibration start processing Perform BUMP calibration start processing Acquire the BUMP calibration result recording processing Perform BUMP calibration result recording processing Perform BUMP calibration result recording processing Perform BUMP calibration processing after BUMP BUMP calibration processing after BUMP calibration processing of BUMP calibration on NOFF setting is performed buMP calibration on NOFF setting is performed.	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combistible gas setting is CH4 or i-C4H10. 6. In flammable limit. 7. Returns the judge. 7. Returns the calibration on is ON. 7. Returns the confirmation is ON. 7. Returns the confirmation result. 8. Returns the confirmation result is turned on. 7. Returns the confirmation on ONOFF setting after the bump fault is ON, the confirmation result is turned on. 7. Returns the confirmation on ONOFF setting after bump fault is OFF, turn off the confirmation result. 8. When the cultivation ONOFF setting after bump fault is OFF, turn off the confirmation result. 9. When the bump calibration count times is not 0, turn on the confirmation result. 9. When the bump calibration count times is not 0, turn on the confirmation result. 9. Return the confirmation result. 9. Return the confirmation result. 1. Start BUMP calibration. 1. Start BUMP calibration. 1. Start BUMP calibration. 1. Start Bump calibration count times is not 0, turn on the confirmation result. 1. Start Bump calibration count times is not 0, turn on the confirmation result. 1. Peans unber is added to the address of the current gas data. 1. The gas rumber is added to the address of the current gas data. 1. The gas rumber is added to the address of the current gas data. 2. Acquire results in times over flag. 1. A failure flag is set when a bumpable gas and a BUMP failure is OFF. 1. Start Bump result oncentration. 4. Bump result unitures over flag. 1. A failure flag is set when calibration after Bump failure is OFF. 1. The flag is also set when calibration after Bump failure is OFF. 1. Turnef AUTO calibration in progress flag. 2. When the bump calibration is	
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req[4-1-2-2] req[4-1-2-3] req[4-1-2-4] req[4-1-2-5] req[4-1-2-6] req[4-1-2-7] req[4-1-2-7] req[4-1-2-7] req[4-1-2-10] req[4-1-2-11] req[4-1-2-11] req[4-1-3-3] req[4-1-3-3] req[4-1-3-4]	necessity judgment processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing BUMP calibration time end confirmation processing BUMP calibration time end confirmation processing BUMP calibration start processing BUMP calibration start processing BUMP calibration start processing BUMP calibration start processing BUMP calibration time acquisition processing after BUMP/CAL success BUMP calibration bumP calibration processing allow processing bumP condition BUMP calibration ONIOF setting display processing BUMP condition BUMP calibration ONIOF setting display item selection processing BUMP condition BUMP calibration time setting display processing BUMP condition BUMP calibration time setting display processing BUMP condition BUMP calibration time setting display processing BUMP condition BUMP threshold	Indication is necessary Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing Perform BUMP calibration execution display processing Perform BUMP calibration start processing Acquire the BUMP calibration result recording processing Perform BUMP calibration processing after BUMP calibration processing start processing confirmation processing start processing confirmation processing start processing confirmation processing confirmation processing start processing confirmation processing start processing confirmation confirmation processing confirmation confirmation confirmation confirmation processing confirmation confirmation confirmation confirmation	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combustile gas setting is CH4 or i-C4H10. 6. In flammable limit. 1. When all of the following conditions 2-4 are satisfied, the judgment of the BUMP test and the result of the BUMP execution are recorded. 1. A faith ensult of the BUMP execution are recorded. 2. Gas setting is valid. 3. Calibration concentration is ON. 4. The sensor is valid. 3. Calibration concentration is ON. 4. The sensor is normal. 5. Record BUMP of logger function. 1. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result. 1. When the calibration ONOFF setting after the bump fault is ON, the confirmation result is turned on. 2. When the calibration ONOFF setting after bump fault is ON, the confirmation result is turned on. 2. When the calibration ONOFF setting after bump fault is OFF, turn off the confirmation are sult. 3. Return the confirmation result. 4. When the bump calibration count timer is not 0, turn on the confirmation result. 5. When the bump calibration count timer is not 0, turn on the confirmation result. 6. When the bump calibration on timer is not 0, turn on the confirmation result. 7. When the bump calibration on timer is not 0, turn on the confirmation result. 8. Return the confirmation result. 1. Start BUMP calibration. 1. Start BUMP calibration. 1. Start BUMP calibration. 1. Start BUMP calibration. 1. Start Bump calibration on the confirmation result is created and corresponding to BUMP prodreading execution. 1. Start Bump calibration on the confirmation result in the seconds after bump fault and bump time seconds. 1. The gas number is added to the address of the current gas data. 1. A region results in the sum of the current gas data. 1. A region results in the sum of the current gas data. 2. Acquire results in times day. 3. BUMP result to one-fraid. 4. BUMP result to one-fraid. 5. BUMP result one-fraid in the sum of the starting after successful bump or	
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req[4-1-2-2] req[4-1-2-3] req[4-1-2-4] req[4-1-2-6] req[4-1-2-6] req[4-1-2-7] req[4-1-2-7] req[4-1-2-10] req[4-1-2-11] req[4-1-2-11] req[4-1-2-12] req[4-1-3-3] req[4-1-3-4] req[4-1-4-1]	BUMP calibration processing BUMP calibration processing for communication Confirm necessity of BUM calibration BUMP calibration setting confirmation processing BUMP calibration setting confirmation processing BUMP calibration time end confirmation processing BUMP calibration execution display processing BUMP calibration terms acquisition processing BUMP calibration start processing BUMP calibration time acquisition processing BUMP calibration time acquisition processing BUMP calibration terms acquisition processing BUMP calibration start processing BUMP condition BUMP calibration ON/OFF setting display processing BUMP condition BUMP calibration ON/OFF setting display processing BUMP condition BUMP calibration processing BUMP condition BUMP calibration processing BUMP condition BUMP calibration time setting display processing BUMP condition BUMP processing	Perform BUMP calibration processing for communication Confirm necessity of BUMP calibration Confirm processing of BUMP calibration presence / absence setting Perform BUMP calibration time end confirmation processing Perform BUMP calibration time end confirmation processing Perform BUMP calibration start processing Acquire the BUMP calibration time Perform BUMP calibration result recording processing Perform BUMP calibration result recording processing Perform BUMP calibration result recording processing Perform BUMP calibration result recording processing short BUMP Perform BUMP calibration result recording processing short BUMP calibration result recording processing short BUMP calibration results are recorded to the short processing of BUMP calibration NOVEF setting is performed BUMP condition Display processing of BUMP calibration ONVOFF setting BUMP calibration SulPuP calibration ONVOFF setting BUMP calibration Display processing of BUMP calibration BUMP calibration Display processing of BUMP calibration BUMP calibration BUMP calibration Display processing of BUMP calibration BUMP calibrat	2. It is a gas that can be bumped. 3. Calibration ONOFF setting after bump fault is ON. 4. Bump calibration is successful. 5. The combasting gas setting is CH4 or i-C4H10. 6. In terminate single gas setting is CH4 or i-C4H10. 6. In terminate single gas setting is CH4 or i-C4H10. 6. In terminate single gas setting is CH4 or i-C4H10. 6. In terminate single gas setting is CH4 or i-C4H10. 6. In terminate single gas setting is CH4 or i-C4H10. 6. In terminate single gas setting is CH4 or i-C4H10. 6. In the setting single gas setting is CH4 or i-C4H10. 6. Cas setting is valid. 6. Calibration concentration is ON. 6. Rocord BUMP of logger function. 7. Rocord BUMP of logger function. 7. Rocord BUMP of logger function. 7. When the bumpable gas is used, if the BUMP test is necessary, turn on the confirmation result. 7. When the calibration ONOFF setting after the bump fault is OF, turn off the confirmation result. 8. Return the confirmation result. 8. Return the confirmation count timer is not 0, turn on the confirmation result. 9. When the bump calibration count timer is not 0, turn on the confirmation result. 9. When the bump calibration count timer is not 0, turn on the confirmation result. 9. When the bump calibration count timer is not 0, turn on the confirmation result. 9. Return the confirmation result. 9. Start BUMP calibration. 9. Start BUMP result minus for gas and setting seconds after bump fault and bump intereseconds. 9. Start Bump calibration count timer for our difference of the confirmation result. 9. Acquire results a 16 below. 9. Acquire results a 16 below. 9. Acquire results a 16 below. 9. La full result of 10 peases and 10	

req[4-1-4-5]	BUMP condition BUMP threshold setting end processing	BUMP condition Performs ending process of BUMP threshold setting	 Insert calibration time seconds after bump fault into item number. Turnon FRAM write start flag. 	
req[4-1-4-6]	BUMP condition BUMP time setting end processing	BUMP condition Performs end processing of BUMP time setting	Put bump time seconds in item number. Turnon FRAM write start flag.	
req[4-1-4-7]	BUMP condition BUMP calibration time setting start processing	BUMP condition Start processing of setting BUMP calibration time	Insert calibration time seconds after bump fault into item number. Turnoff up / down numerical value setting.	
req[4-1-4-8]	BUMP condition BUMP threshold setting start processing	BUMP condition Start processing of BUMP threshold setting	Put bump tolerance in item number.	
req[4-1-4-9]	BUMP condition setting mode menu	Start processing of the BUMP condition setting mode	Turnoff up / down numerical value setting. Initialize item number.	
-	start processing BUMP condition BUMP time setting	menu Start processing of BUMP condition BUMP time	Turnoff up / down numerical value setting. Put bump time seconds in item number.	
req[4-1-4-10]	start processing BUMP condition BUMP calibration	setting BUMP condition BUMP calibration time setting	Turnoff up / down numerical value setting. When BUMP calibration time settable value matches item number, out BUMP	
req[4-1-4-11]	time setting display item selection processing	display item selection process	When BOMP calibration time settable value matches item number, put BOMP calibration time settable value in item number in item number.	
req[4-1-4-12]	BUMP condition BUMP threshold setting display item selection processing	BUMP condition BUMP threshold setting display item selection processing is performed	 If the BUMP threshold setting possible value matches the item number, put the BUMP threshold setting possible value in the item number in the item number. 	
req[4-1-4-13]	BUMP condition setting mode menu item selection processing	Perform item selection processing of BUMP condition setting mode menu	 Insert numerical increase / decrease processing into BUMP condition setting mode menu item. 	
req[4-1-4-14]	BUMP condition BUMP time setting display item selection processing	BUMP condition BUMP time setting Display item selection process	 If the BUMP time settable value matches the item number, put the BUMP time settable value in the item number in the item number. 	
req[4-1-4-15]	BUMP condition setting mode menu display processing	Display processing of the BUMP condition setting mode menu is performed	BUMP condition setting mode Create character data corresponding to the menu.	
req[4-1-5-1]	BUMP error flag OFF	turn off the BUMP error flag	Substitute the calibration system error flag.	
req[4-2-1-1]	Alarm test ON/OFF confirmation processing of SDMor manufacturing facility	Perform alarm test ON/OFF check process of SDMor manufacturing facility	If SDM alarm test count is 0, it returns OFF. If the SDM alarm test count is not 0, return the SDM alarm test type.	
req[4-2-1-2]	Alarm test reset	Perform alarm test reset	Set alarm point display on SDM alarm test type.	
req[4-2-1-3]	Alarm test ON/OFF processing of SDM or manufacturing facility	Perform alarm test ON/OFF processing of SDM or manufacturing facility	1. Control ONOFF setting of buzzes 2. Control ONOFF setting of vbrainen notor. 3. Control ONOFF setting of LED. 4. When the buzzer ONOFF setting flag, the vibration motor ONOFF setting flag, and the LED ONOFF setting flag are all OFF, the SDM alarm test count is set to 0. 5. When a test one of the buzzer ONOFF setting flag, the vibration motor ONOFF, setting flag, and the LED ONOFF setting flag is ON, the maximum time of SDM alarm test count is placed in SDM alarm test count is placed in SDM alarm test count is placed in SDM alarm test count.	
req[4-2-1-4]	Alarm point display alarm warning stop processing	Stop processing of alarm announcement	When the ON/OFF setting flag is OFF, the alarm is stopped. When the ON/OFF setting flag is OFF, an alarm is issued.	
req[4-2-1-5]	ON/OFF acquisition processing of gas test flag	Acquire ON/OFF setting of gas test flag	Returns the flag as to whether it is transitioning to the gas test mode.	
req[4-2-1-6]	ON/OFF processing of gas test flag	Perform ON/OFF processing of gas test flag	 Place the ON/OFF setting flag in the flag as to whether it is shifting to the gas test mode. 	
req[5-1-1-1]	Carry out air calibration	Carry out air calibration	Set the time buffer. When the port is the corresponding channel, confirm the operation system event.	
req[5-1-1-2]	AIR calibration concentration display processing	Perform Perform AIR calibration concentration display processing	Create a concentration display for maintenance. Create display characters for AIR calibration.	
req[5-1-1-3]	AIR calibration success display processing	Perform AIR calibration success display processing	Create character data corresponding to successful AIR proofreading.	
req[5-1-1-4]	AIR calibration HOLD AIR display processing	Perform AIR calibration HOLD AIR display processing	Create character data corresponding to AIR calibration HOLD AIR.	
req[5-1-1-5]	AIR calibration RELEASE display processing	Perform AIR calibration RELEASE display processing	Create character data corresponding to AIR calibration RELEASE.	

	EC sensor AIR calibration processing	Perform EC sensor AIR calibration processing	 Acquire the A/D value of the sensor. Correct the temperature at zero point and change to the reference temperature.	
			When the output of the current sensor is within the AIR threshold value,	
			the following processes 4 to 7 are executed. 4. Set current sensor output to AIR value.	
req[5-1-1-6]			Acquire temperature data at zero point calibration.	
			Reset zero tracking of EC sensor. Turnon FRAM write start flag.	
			Make the calibration result OK.	
			Turnoff zero tracking. Return calibration result.	
	Hydrogen cancellation carbon	Perform hydrogen cancellation carbon monoxide	H2 Cancel Acquire the A/D value of CO and H2S.	
req[5-1-1-7]	monoxide AIR calibration process	AIR calibration processing	Correct the temperature at zero point. If it is within the threshold of AIR calibration, carry out AIR calibration of	
			H2cancellation CO.	
	Oxygen AIR calibration processing	Perform oxygen AIR calibration processing	Return calibration result. 1. Set the address to O2.	
	, , , , , , , , , , , , , , , , , , , ,	7,5	Calculate the span temperature compensation temperature coefficient of the current temperature.	
req[5-1-1-8]			3. When the current sensor output is within the AIR threshold value, AIR calibration of O2	
			is performed. 4. Turnoff zero tracking.	
			Return calibration result.	
	Flammable AIR calibration processing	Perform flammable AIR calibration processing	Set the address to NC. Calculate the NC zero point temperature compensation coefficient.	
req[5-1-1-9]	processing		If the output of the current sensor is within the AIR threshold, AIR calibration of	
			flammable gas is performed. 4. Return calibration result.	
req[5-1-1-10]		Perform AIR error flag OFF processing	Turnoff the AIR calibration abnormality flag.	
	AIR calibration processing	Perform AIR calibration processing	 When the AIR calibration executing flag is ON, AIR calibration of flammable gas, O2, H2S, CO, CO2 is performed. 	
			When the AIR calibration retry flag is OFF and the delay counter for ending the AIR	
req[5-1-1-11]			calibration is 0, the AIR calibration of the log function is recorded. 3. Turnoff the AIR calibration executing flag.	
			When the AIR calibration end delay counter is not 0, the AIR calibration end delay	
	AIR calibration execution start flag	Acquire the AIR calibration execution start flag	counter is counted down. 1. Returns the AIR calibration executing flag.	
req[5-1-1-12]	acquisition processing			
l	AIR calibration execution start processing	Perform AIR calibration execution start processing	 If the gas setting is valid and the initial sensor disconnection and sensor disconnection have not occurred, turn on the AIR calibration retry flag. 	
req[5-1-1-13]			Initialize counter for AIR calibration retry NC. Set the delay counter for AIR calibration end to 3.	
	AIR calibration display flag	Acquire the AIR calibration display flag	Set the delay counter for AIR calibration end to 3. Returns the AIR calibration display flag.	
req[5-1-1-14]	acquisition processing		* * *	
req[5-1-1-15]	AIR calibration display flag setting processing	Perform setting process of AIR calibration disply flag	Insert the ON/OFF setting flag in the AIR calibration display flag.	
req[5-1-2-1]	AIR calibration fault display	Perform AIR calibration fault display processing	If the setting is ON and zero calibration error, gas name - unit is substituted.	
	processing Check if there is no AIR calibration	Confirm whether there is no abnormality in AIR	When the AIR calibration abnormality flag is ON, make the confirmation result abnormal.	
req[5-1-2-2]	error	calibration	Return the confirmation result.	
req[5-2-2-1]	Demand zero ON/OFF setting display processing	Perform display process of demand zero ON/OFF setting	 Create display of ON/OFF setting menu corresponding to Demand Zero ON/OFF setting. 	
rea[5-2-2-2]	Demand zero ON/OFF setting end	Perform end processing of demand zero ON/OFF setting	Insert item number into demand zero ON/OFF setting.	
	processing Demand zero ON/OFF setting start	Perform start processing of demand zero ON/OFF	Turnon FRAM write start flag. Put the demand zero ON/OFF setting in the item number.	
req[5-2-2-3]	processing	setting		
req[5-2-2-4]	Demand zero ON/OFF setting ON/OFF selection processing	Perform selection process of demand zero ON/OFF setting	Put ON/OFF replacement processing in item number.	
req[5-2-2-5]	Acquire ON/OFF setting of demand zero	Acquire ON/OFF setting of demand zero	Return ON/OFF setting of demand zero.	
rea[5-3-1-1]	Auto zero execution confirmation	Perform confirmation display of auto zero execution	Create character data corresponding to auto zero execution confirmation display.	
1eq[5-3-1-1]	display Auto zero ON/OFF check processing	Perform ON/OFF setting confirmation processing of	Returning auto zero ON/OFF setting.	
req[5-3-1-2]		auto zero	•	
req[5-3-2-1]	Auto zero ON/OFF setting display processing	Perform display processing of auto zero ON/OFF setting	Create ON/OFF setting menu display corresponding to auto zero ON/OFF setting.	
req[5-3-2-2]	Auto zero ON/OFF setting end	Perform end processing of the auto zero ON/OFF	Insert item number into auto zero ON/OFF setting.	
	processing Auto zero ON/OFF setting start	setting Perform start processing of auto zero ON/OFF setting	Turnon FRAM write start flag. Insert auto zero ON/OFF setting in item number.	
req[5-3-2-3]	processing			
req[5-3-2-4]	Auto zero ON/OFF setting ON/OFF selection processing	Perform selection process of auto zero ON/OFF setting	Put ON/OFF replacement processing in item number.	
req[5-4-1-1]	Setting before auto calibration in progress concentration display	Perform setting before auto calibration in	Set the group to be used for AUTO calibration.	
	Check whether auto calibration	progress concentration display Perform check whether auto calibration group can	When the following conditions 2 to 4 are satisfied, the confirmation result is made OK.	
	group can be selected	be selectedd	Gas setting is effective.	
req[5-4-1-2]			 The calibration group matches the confirmation group number. The setting of the calibration concentration is not OFF_VAL. 	
	Auto-office Community		Return the confirmation result.	
	Auto calibration group selection value confirmation processing	Perform auto calibration group selection value confirmation processing	Return the auto calibration group selection value.	
req[5-4-1-3]				
req[5-4-1-4]	Confirm whether auto calibration group can be selected (for ZIPC)	Perform Confirm whether auto calibration group can be selected	 AUTO Returns confirmation processing as to whether the calibration group can be selected. 	
	Concentration display processing	Perform concentration display processingduring	When calibration is executable, display the concentration value and gas name.	
req[5-4-1-5]	during auto calibration	auto calibration	AUTO Creates character data corresponding to the calibration in progress.	
	Auto calibration gas concentration	Perform Auto calibration gas concentration display	AUTO Create character data corresponding to the calibration gas concentration.	
req[5-4-1-6]	display			
req[5-4-1-7]	Auto calibration success display	Perform Auto calibration success display processing	AUTO Create character data corresponding to successful proofing.	
104[0-4-1-1]	processing Auto calibration success in progress	Auto calibration success in progress display	AUTO Creates corresponding character data while proofreading is being executed	
req[5-4-1-8]	display processing	processing	successfully.	
	Gas concentration display after	Perform gas concentration display after auto	When calibration is executable, display the concentration value and gas name.	
req[5-4-1-9]	auto calibration	calibration	AUTO Create character data corresponding to gas concentration after proofreading.	
req[5-4-1-10]	Auto calibration execution processing	Perform Auto calibration execution processing	Set the group to be used for AUTO calibration.	
	1		Perform AUTO calibration execution start processing.	

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req[5-4-1-11]	Auto calibration mode menu start processing	Perform auto calibration mode menu start processing	 If the setting is ON and the selected group is the same as the group being selected, set the result to ON. Set item number. 	
			Turnoff up / down numerical value setting.	
req[5-4-1-12]	Auto calibration group selection processing	Perform Auto calibration group selection processing	If the up / down numeric value change setting is OFF, move the item upward. If the up / down change setting of the number is ON, move the item downward.	
req[5-4-1-13]	Auto calibration group selection Next item selection processing	Perform auto calibration group selection Next item selection processing	If the AUTO calibration group selection is greater than the ESCAPE display, set cylinder A.	
	EC sensor auto calibration processing	Perform EC sensor Auto calibration process	select the aroup. 1. Acquire the A/D value of the sensor.	
			Correct the temperature at zero point and change to the reference temperature. When the output of the current sensor is within the span threshold value,	
req[5-4-1-14]			EC sensor AUTO calibration is executed. 4. Returns the judgment result.	
	Hydrogen cancellation carbon monoxide auto calibration processing	Perform hydrogen cancellation carbon monoxide Auto calibration process	H2 Cancel Acquire the A/D value of CO and H2S. Correct the temperature at zero point.	
req[5-4-1-15]			Calculate the span output at the current temperature. Calculate the span temperature compensation coefficient.	
			Calculate the sensitivity of the reference temperature. When it is within the threshold of SPAN calibration, AUTO calibration of	
			H2 cancellation CO is carried out. 7. Returns the judgment result.	
	Oxygen auto calibration processing	Perform oxygen Auto calibration process	Set the address to O2. Calculate the difference between the zero point output and the current sensor output.	
req[5-4-1-16]			Calculate the span temperature compensation coefficient of the AIR point. Calculate the span temperature compensation coefficient of the SPAN point.	
			If the output of the current sensor is within the threshold of the zero point, AUTO calibration of O2 is performed.	
	Flammable auto calibration processing	Perform flammable Auto calibration process	Set the address to NC. Calculate the NC zero point temperature compensation coefficient.	
			Calculate the NC span point temperature compensation coefficient. If calibration gas is NO solvent gas or if either element is OK, calibration gas is solvent	
			gas and A element is OK AUTO calibration of flammable gas is performed. 5. Returns the judgment result.	
req[5-4-1-17]				
	Auto calibration execution start	Perform Auto calibration execution start processing	Turnoff AUTO calibration in progress flag.	
	processing for communication command	for communication command	If the following conditions 3 to 4 are satisfied, turn on the AUTO calibration end flag and turn off the UP calibration flag	
req[5-4-1-18]			and turn on the OP calibration hag. 3. The gas setting is valid and the calibration concentration is not OFF. 4. The sensor is normal.	
			The sensor is normal. AUTO Sets the calibration concentration value. Set the SDM serial used for AUTO calibration.	
req[5-4-1-19]	Acquisition processing of group used for auto calibration	Acquire processing of group used for auto calibration	Return the group to use for calibration.	
req[5-4-1-20]	Acquisition processing of SDM serial used for auto calibration	Acquire processing of SDM serial used for auto calibration	Acquire the SDM serial number.	
req[5-4-1-21]	Auto error flag OFF processing	Perform Auto error flag OFF processing	Turnoff the SPAN calibration abnormality flag.	
req[5-4-1-22]	Setting processing of group used for auto calibration	Perform the group setting process used for auto calibration	Insert the ON/OFF setting flag into the group to be used for calibration.	
req[5-4-1-23]	Setting processing of SDM serial used for auto calibration	Perform setting process of SDM serial used for auto calibration	Acquire the SDM serial number.	
	Auto calibration processing	Perform auto calibration processing	 When the AUTO calibration in progress flag is ON, perform AUTO calibration of flammable gas, O2, H2S, CO, CO2. 	
req[5-4-1-24]			When the AUTO calibration end flag is OFF, the SPAN calibration of the logger function is recorded.	
req[5-4-1-25]	Auto calibration execution start flag	Acquire the auto calibration execution start flag	Turnoff AUTO calibration in progress flag. Return AUTO Calibration Executing Flag.	
1eq[5-4-1-25]	acquisition processing Auto calibration execution start	Perform auto calibration execution start processing	Turnoff AUTO calibration in progress flag.	
	processing		If the following conditions 3 to 5 are satisfied, turn on the AUTO calibration end flag and turn off the UP calibration flag.	
req[5-4-1-26]			The gas setting is valid and the calibration concentration is not OFF.	
			The proof group matches the argument specification.	
			The sensor is normal. AUTO Sets the calibration concentration value.	
reg[5-4-2-1]	Auto calibration concentration	auto Performs calibration concentration change	5. The sensor is normal.	
req[5-4-2-1] req[5-4-2-2]	change processing Auto calibration concentration	processing Perform auto calibration concentration change	The sensor is normal. AuTO Sets the calibration concentration value. Set the SDM senial used for AUTO calibration. LAUTO Sets the calibration concentration value. Auto Calibration. LAUTO Create character data corresponding to calibration concentration change. Menery of the Calibration concentration change.	
req[5-4-2-2]	change processing Auto calibration concentration change gas selection display Auto calibration concentration	processing Perform auto calibration concentration change qas selection display processing Perform auto calibration concentration change	The sensor is normal. AuTO Sets the calibration concentration value. Set the SDM serial used for AUTO calibration. I. AUTO Create character data corresponding to calibration concentration change. I. When gas is selected, create a display character for the gas name. When ESCAP is selected, create a display character for ESCAPE. I. Insert item number into calibration concentration.	
	change processing Auto calibration concentration change gas selection display Auto calibration concentration change end processing	processing Perform auto calibration concentration change gas selection display processing Perform auto calibration concentration change end processing	5. The sensor is normal. 6. AUTO Sets the calibration concentration value. 7. Set the SDM serial used for AUTO calibration. 1. AUTO Create character data corresponding to calibration concentration change. 1. When gas is selected, create a display character for the gas name. 2. When ESCAP is selected, create a display character for ESCAPE. 1. Insert item number into calibration concentration. 2. Turnof TQM write start flag. 3. Turnof FQM write start flag.	
req[5-4-2-2]	change processing Auto calibration concentration change gas selection display Auto calibration concentration change end processing Auto calibration concentration change start processing	processing Perform and calibration concentration change gas selection display processing Perform and calibration concentration change end processing Perform and calibration concentration change start processing	5. The sensor is normal. 6. AUTO Sets the calibration concentration value. 7. Set the SDM serial used for AUTO calibration. 1. LAUTO Create character data corresponding to calibration concentration change. 1. When gas is selected, create a display character for the gas name. 2. When ESCAP is selected, create a display character for ESCAPE. 1. Insert item number into calibration concentration. 2. Turnoff Up / down numerical value setting. 1. Turnof FRAM write start flag. 1. Put the calibration concentration in the item number. 2. Turnoff Up / down numerical value setting.	
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If the up / down change setting of the number is ON, move the item downward. 1. Insert the calibration concentration value into the communication AUTO calibration concentration value in the the communication AUTO calibration concentration value in the detector body, acquire the calibration concentration value for the detector body, acquire the calibration concentration value for communication. 2. When calibration is severated from the command, acquire the AUTO calibration concentration value for communication. 3. Group matches argument. 4. When calibration severated from the command, acquire the AUTO calibration concentration value for communication. 5. Return the confirmation result. 6. Return the confirmation result. 7. When calibration severated from the command, acquire the AUTO calibration concentration value for communication. 7. Return the confirmation result. 8. Return the confirmation result. 9. When ESCAPE. 9. Case setting is defective. 9. Group matches argument. 9. Turnof the calibration concentration is not OFF_VAL. 9. Return the confirmati	
req[5-4-2-4] req[5-4-2-4] req[5-4-2-6] req[5-4-2-6] req[5-4-2-7] req[5-4-2-7] req[5-4-2-7] req[5-4-2-10] req[5-4-3-1] req[5-4-3-3] req[5-4-3-4] req[5-4-3-6] req[5-4-3-6] req[5-4-3-6] req[5-4-4-1] req[5-4-1-1] req[5-6-1-1] req[5-6-1-3] req[5-6-1-5]	change processing Auto calibration concentration change gas selection display Auto calibration concentration change gas delection display Auto calibration concentration change end processing Auto calibration concentration change start processing Auto calibration concentration change start processing Auto calibration concentration value change Auto calibration concentration auto calibration concentration value change Auto calibration concentration value change Auto calibration concentration setting processing for communication Auto calibration concentration setting processing for communication Auto calibration concentration change confirm ESCAPE display Confirm if gas that may be displayed Group change gas selection display Group change gas selection start processing Group change gas selection start processing Group change gas calibration error display Group change gas change Group change start processing Group change start processing Group change gas change Check whether there is span calibration error	processing Perform auto calibration concentration change gas selection display processing Perform auto calibration concentration change and processing Perform auto calibration concentration change and processing Perform auto calibration concentration change start processing Perform Auto calibration concentration change gas selection start processing Auto Change the calibration concentration change gas selection start processing Auto Change talbration concentration change gas Perform auto calibration concentration value Auto Change calibration concentration value setting processing for communication Perform auto calibration concentration value setting processing Confirm whether auto calibration shows concentration change SSCAP display Confirm if gas can be displayed Perform group change gas selection display Perform group change display processing Perform group change and processing Perform group change and processing Perform group change gas selection start processing Perform group change gas selection start processing Perform group change gas selection start processing Perform auto calibration epiration setting processing Change group values Perform auto calibration epiration operation setting processing Perform autocasis of the calibration operation setting processing Perform autocasis of the calibration operation setting processing Perform autocasis of the calibration operation setting	5. The sensor is normal. 6. AUTO Sets the calibration concentration value. 7. Set the SDM serial used for AUTO calibration. 1. AUTO Create character data corresponding to calibration concentration change. 1. When gas is selected, create a display character for the gas name. 2. When ESCAP is selected, create a display character for the gas name. 2. When ESCAP is selected, create a display character for ESCAPE. 1. Insert item number in calibration concentration. 2. Turnoff up / down numerical value setting. 1. Part the calibration concentration in the tern number. 2. Turnoff up / down numerical value setting. 1. Set maximum value, minimum value, digit. 2. Set item number. 3. Turnoff up / down numerical value setting. 1. Set maximum value, minimum value, digit. 1. Insert the calibration concentration value in the number is the properties of the prop	

	Calibration time limit function ON/OFF confirmation processing	Perform calibration time limit function ON/OFF confirmation processing	If the calibration expiration display function is ON and it is not domestic specification, turn on the result. If the calibration time limit display function is OFF or domestic specification, turn off the result. Return results.
req[5-5-3-1]	Calibration (BUMP) calculation process of the number of remaining days	Perform calibration (BUMP) expiration remaining days calculation processing	Output final expiration. Insert the current time. S. Perform difference and calculate remaining number of days. Return the remaining number of days.
req[5-5-3-2]	Calibration expiration check processing	Perform calibration expiration check processing	Enter the maximum number of remaining days. H2 Cancellation If not CO, calculate the remaining number of days. Return the remaining number of days.
req[5-5-3-3]	Calibration time limit function expiration confirmation processing	Perform calibration time limit function expiration check processing	If the result of the calibration expiration check processing is 0, the BUMP expiration flag is set to 0.N. If the result of the calibration expiration check processing is other than 0, turn off the BUMP expiration flag.
req[5-5-3-4]	Calibration time limit function expired operation acquisition processing	Acquire calibration time limit function expired operation	Return calibration time limit check method.
req[5-5-3-5]	Calibration time limit function expired acquisition processing	Calibration time limit function Acquire expiration	Return the calibration expiration flag.
req[5-5-4-1]	Calibration expired Do not do anything display	Make a display indicating that the calibration expired and nothing is done	Proofreading expires Creates character data corresponding to not doing anything.

req[5-5-4-2]	Display of calibration expiration remaining days	Display the calibration expiration remaining days	Calculate remaining days. When the current number of days is larger than the maximum number of remaining days, If the current number of days is larger than the maximum number of remaining days, If it is considered to the remaining number of days. It is dayslayed as the remaining number of days. 4. Create character data corresponding to the number of days remaining for calibration. 5. Convert the numerical value corresponding to the calibration due date remaining to character data.	
req[5-5-4-3]	Display prohibition of proofreading expiration	Display prohibition of proofreading expiration	Create character data corresponding to prohibited expiration prohibition.	
req[5-5-4-4]	Calibration expiration confirmation display	Display calibration expiration confirmation	Create character data corresponding to calibration expiration confirmation.	
req[5-5-5-1]	Calibration expiration ON/OFF setting display processing	Display processing of the calibration expiration ON/OFF setting is performed	 Create display of ON/OFF setting menu corresponding to calibration time limit ON/OFF setting. 	
req[5-5-5-2]	Calibration time limit ON/OFF setting end processing	Perform processing for ending calibration due date ON/OFF setting	Insert item number into ON/OFF setting of display of calibration expiration. Turnon FRAM write start flag.	
req[5-5-5-3]	Calibration time limit ON/OFF setting start processing	Start calibration time limit ON/OFF setting processing	 Insert the ON/OFF setting of the display of the calibration expiration into the item number. 	
req[5-5-5-4]	Calibration time limit ON/OFF setting	Calibration expiration ON/OFF setting Display	Turnoff up / down numerical value setting. Put ON/OFF replacement processing in item number.	
	display item selection processing Calibration expiration setting	item selection process Perform calibration expiration days setting display	Create character data corresponding to calibration expiration setting.	
req[5-5-6-1]	display processing	processing	 Convert the numerical value corresponding to the calibration expiration setting into character data. Flash maintenance letters. 	
req[5-5-6-2]	Calibration expiration days setting end processing	Perform processing for end the calibration expiration setting	Put the item number in the calibration expiration setting value. Turnon FRAM write start flag.	
req[5-5-6-3]	Calibration expiration setting start processing	Perform start processing of calibration expiration setting	Insert the calibration expiration setting value in the item number. Turnoff up / down numerical value setting.	
req[5-5-6-4]	Calibration expiration days setting display item selection processing	Perform calibration expiration days setting display item selection processing	 Select the calibration expiration setting display item for increasing / decreasing the numerical value. 	
req[5-5-6-5]	Concentration substitution processing after calibration	Perform concentration substitution processing after calibration	 When the minus flag is ON, the concentration after final calibration is set to 0. When the minus flag is OFF and the over flag is ON, the value obtained by adding the full scale value and the digit to the post-calibration concentration is inserted. Record the final standard value concentration. 	
req[5-5-6-6]	Pre-calibration concentration substitution processing	Perform concentration substitution process before calibration	When the minus flag is ON, the final pre-calibration concentration is set to 0. When the minus flag is OFF and the over flag is ON, the value obtained by adding the full scale value and the digit to the pre-calibration concentration is inserted. Record the final standard value concentration.	
req[5-6-1-1]	BUMP time limit function ON/OFF confirmation process	Perform BUMP time limit function ON/OFF confirmation processing	When the BUMP time limit display function is ON, turn on the result. When the BUMP time limit display function is OFF, turn off the result.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BUMP expired operation setting	Display processing of BUMP expired operation	Return results. Create character data corresponding to BUMP expired operation setting.	
req[5-6-2-1]	display processing	settings	Flash maintenance letters.	
req[5-6-2-2]	BUMP expired operation setting end processing	Perform end processing of BUMP expired operation setting	Insert item number into bump expiration operation. Turnon FRAM write start flag.	
req[5-6-2-3]	BUMP expired operation setting start processing	Perform start processing of BUMP expired operation setting	Put bump expiration action in item number Turnoff up / down numerical value setting.	
req[5-6-2-4]	BUMP time limit setting mode menu start processing	Perform start processing of the BUMP time limit setting mode menu	Initialize item number. Turnoff up / down numerical value setting.	
req[5-6-2-5]	BUMP expired operation setting display item selection processing	Perform BUMP expired operation setting display item selection processing	 Select BBUMP expired operation setting display item for numerical increase / decrease processing. 	
req[5-6-2-6]	BUMP time limit setting mode menu item selection processing	Perform BUMP time limit setting mode menu item selection processing	 Select BUMP expiration setting mode menu item for increasing / decreasing numeric value. 	
req[5-6-2-7]	BUMP time limit setting mode menu display processing	Display processing of the BUMP time limit setting mode menu is performed	Create character data corresponding to the BUMP time limit setting mode menu.	
req[5-6-3-1]	BUMP expiration check processing	Perform BUMP expiration check processing	Enter the maximum number of remaining days. H2 Cancellation If not CO, calculate the remaining number of days.	
req[5-6-3-2]	BUMP expiration function expiration check processing	Perform BUMP expiration function expiration check processing	3. Return the remaining number of days. 1. When the result of the BUMP expiration check processing is 0, the BUMP expiration flag is set to ON. 2. When the result of the BUMP expiration check processing is other than 0, the BUMP expiration flag is set OFF.	
req[5-6-3-3]	BUMP time limit function expired operation acquisition processing	Perform BUMP time limit function expired operation acquisition processing	Return bump expired behavior.	
req[5-6-3-4]	BUMP time limit function expired acquisition processing	BUMP time limit function Acquires expiration	Return BUMP expiration flag	
req[5-6-3-5]	BUMP deadline BUMP/CAL success flag assignment process	BUMP deadline BUMP/CAL success flag assignment process	Substitute ON for the BUMP/CAL success flag for the BUMP deadline.	
	BUMP expiration check confirmation process	BUMP expiration check confirmation process	 Enter the maximum number of remaining days. H2 Cancellation If not CO, calculate the remaining number of days. 	
req[5-6-3-6]			However, if the number of remaining days is 0 and the BUMP/CAL success flag for BUMP deadline is ON, 1 day will be set as the remaining number of days. 3. Return the remaining number of days.	
req[5-6-4-1]	BUMP expired display nothing	BUMP Displays that expiration does nothing	BUMP creates character data corresponding to not doing anything expired.	
req[5-6-4-2]	Display BUMP expiration remaining days	Display BUMP expiration remaining days	Calculate remaining days. When the current number of days is larger than the maximum number of remaining days, " is displayed. If the current number of days is larger than the maximum number of remaining days, It is displayed as the remaining number of days. Create character date coresponding to BUMP due date remaining.	
			Orease utelasticer data consequenting or occurrence utel remaining. Convert the numerical value corresponding to the BUMP due date remaining to character data.	
req[5-6-4-3]	BUMP expiration prohibition display	Perform BUMP expiration prohibition display	Create character data corresponding to BUMP expiration prohibition.	
req[5-6-4-4]	BUMP expiration confirmation display	Display BUMP expiration confirmation	Create character data corresponding to BUMP expiration confirmation.	
req[5-6-5-1]	BUMP time limit ON/OFF setting display processing	Perform BUMP time limit ON/OFF setting display processing	Create character data corresponding to BUMP time limit ON/OFF setting.	
req[5-6-5-2]	BUMP time limit ON/OFF setting end processing	Perform BUMP time limit ON/OFF end display processing	Insert item number into bump time limit ON/OFF setting. Turnon FRAM write start flag.	
req[5-6-5-3]	BUMP time limit ON/OFF setting start process	Perform BUMP time limit ON/OFF start display processing	Insert bump time limit ON/OFF setting in item number.	
req[5-6-5-4]	BUMP time limit ON/OFF setting display item selection processing	Perform BUMP time limit ON/OFF setting display item selection processing	Put ON/OFF replacement processing in item number.	
req[5-6-6-1]	BUMP expiration date setting display processing	Perform display processing of BUMP expiration date setting	Convert the numerical value corresponding to BUMP expiration date setting. Convert the numerical value corresponding to the BUMP expiration date setting to character data. Riesh maintenance letters.	
req[5-6-6-2]	BUMP expiration date setting end processing	Perform BUMP expiration date setting end processing	Insert item number into bump expiration setting value. Turnon FRAM write start flag.	
req[5-6-6-3]	BUMP expiration date setting start process	Perform BUMP expiration date setting start processing	Put the bump time limit setting value in the item number. Turnoff up / down numerical value setting.	
req[5-6-6-4]	BUMP expiration date setting display item selection processing	Perform BUMP expiration date setting display item selection processing	Select BUMP expiration date setting display item for increasing / decreasing numerical value.	
req[5-6-6-5]	Concentration substitution process after BUMP	Perform concentration substitution processing after BUMP	1. When the minus flag is ON, the concentration in the final bump test is set to 0. 2. When the minus flag is OFF and the over flag is ON, the value obtained by adding the full scale value and the digit to the final bump test concentration is inserted. 3. Record the final standard value concentration.	
-odio-o-p-ol				
	Maintenance announcement function ON/OFF confirmation	Perform maintenance announcement function ON/OFF confirmation processing	 If the Maintenance announcement function is on and domestic specifications, turn on the result. 	
req[5-7-1-1]	processing		If the maintenance letter announcement function is OFF, not the domestic specification, turn off the result. Return results.	

req[5-7-2-1]	Maintenance announcement expired operation setting display processing	Perform maintenance display expiration operation setting display processing		Maintenance announcement Creates character data corresponding to expired operation settings. Flash maintenance letters.	
req[5-7-2-2]	Maintenance announcement mode menu display processing	Perform maintenance announcement mode menu display processing		Character data is set with the value of item number as a condition. Create character data corresponding to the maintenance announcement mode menu.	
req[5-7-2-3]	Maintenance announcement expired operation setting end processing	Maintenance announcement expiration operation Perform setting end processing		Insert the item number into the maintenance announcement expiration operation. Turnon FRAM write start flag.	
req[5-7-2-4]	Maintenance announcement expired operation setting start processing	Maintenance announcement expiration operation Perform setting start processing		Maintenance Announcement Enter expiration action in item number. Turnoff up / down numerical value setting.	
req[5-7-2-5]	Maintenance announcement setting mode menu start processing	Perform maintenance notification setting mode start menu processing		Initialize item number. Turnoff up / down numerical value setting.	
req[5-7-2-6]	Maintenance announcement expired operation setting selection processing Maintenance announcement mode	Perform maintenance setting information expiration operation setting selection processing Maintenance announcement Mode Perform menu		Include increment / decrement of numerical value in item number. Include increment / decrement of numerical value in item number.	
req[5-7-2-7]	menu item selection processing	item selection processing		When the up / down change setting of the numerical value is ON, the item number is counted down.	
	Maintenance announcement	Perform maintenance notice expiration check		When the numerical up / down change setting is OFF, the item number is counted up. Enter the maximum number of remaining days.	
req[5-7-3-1]	expiration check processing Maintenance announcement function	processing Maintenance announcement function perform		H2 Cancellation If not CO, calculate the remaining number of days. Return the remaining number of days. Maintenance announcement Return expired behavior.	
req[5-7-3-2]	expired operation acquisition processing	expiration behavior acquisition processing		т. машенатое апполнения мент ехриво раначог.	
req[5-7-3-3]	Maintenance notice remaining number calculation process	Perform the maintenance day remaining number calculation process		Output final expiration. Insert the current time.	
	Maintenance announcement function	Maintenance announcement function Perform		Reform difference and calculate remaining number of days. Return the remaining number of days. It if the remaining number of days is 0 day, set the maintenance expiration flag to ON.	
req[5-7-3-4]	expiration confirmation processing Maintenance announcement function	expiration confirmation processing Maintenance announcement function Perform		If the remaining furniser of days is o day, set the maintenance expiration riag to ON. If the number of remaining days is not 0 day, turn off the maintenance expiration flag. Return Maintenance Expired Flag.	
req[5-7-3-5]	expired acquisition processing Maintenance expired display nothing	expiration acquisition processing Perform Maintenance expired display nothing		Mentee expires Creates character data corresponding to not doing anything.	
req[5-7-4-1]	Maintenance expiration remaining	Perform maintenance expiration remaining days		Calculate the remaining number of days remaining.	
	days display	display		 When the current number of days is larger than the maximum number of remaining days, is displayed. If the current number of days is larger than the maximum number of remaining days, 	
req[5-7-4-2]				it is displayed as the remaining number of days. 4. Create character data corresponding to the maintenance days remaining days.	
				Convert the numerical value corresponding to the number of remaining maintenance days into character data.	
req[5-7-4-3]	Maintenance expiration prohibition display	Perform Maintenance expiration prohibition display		Create character data corresponding to maintenance expiration prohibition.	
req[5-7-4-4]	Maintenance expiration confirmation display	Display maintenance expiration confirmation		Create character data corresponding to maintenance expiration confirmation.	
req[5-7-5-1]	Maintenance announcement ON/OFF setting display processing	Perform maintenance announcement ON/OFF setting display processing		Create ON/OFF setting menu display.	
req[5-7-5-2]	Maintenance announcement ON/OFF setting end processing	Perform maintenance announcement ON/OFF setting end processing		Insert item number into ON/OFF setting of Maintenance announcement display. Turnon FRAM write start flag.	
req[5-7-5-3]	Maintenance announcement ON/OFF setting start processing	Perform maintenance announcement ON/OFF setting start processing		 Insert the ON/OFF setting of the maintenance announcement display in the item number. 	
req[5-7-5-4]	Maintenance announcement ON/OFF setting display item selection processing	Perform maintenance announcement ON/OFF setting display item selection processing		Set ON/OFF setting menu display Create process into item number.	
roolE 7.6.41	Maintenance announcement days setting display processing	Perform the maintenance announcement days setting display process		Creates display of ON/OFF setting menu corresponding to maintenance announcement number setting and creates character data.	
req[5-7-6-1]				Flash maintenance letters.	
req[5-7-6-2]	Maintenance notice reset display processing	Maintenance announcement Perform reset display processing		Create character data corresponding to maintenance announcement reset.	
req[5-7-6-3]	Maintenance announcement days setting end processing Maintenance notice reset end	Perform maintenance end announcement setting end processing Maintenance announcement Performs reset end		I. Insert item number in Maintenance announcement display days. Turnon FRAM write start flag. Reset Maintenance announcement Date and Time.	
req[5-7-6-4]	processing Maintenance announcement days	processing Perform maintenance start announcement setting		Reset maintenance announcement Date and Time. Insert maintenance announcement display days into item number.	
req[5-7-6-5]	setting start processing Maintenance announcement days	start processing Perform maintenance announcement Days Setting		Transfer manner amount of the setting of the setting. Include increment / decrement of numerical value in item number.	
req[5-7-6-6]	setting display item selection processing	Display item selection processing			
req[5-7-6-7]	Maintenance announcement date and time reset processing	Perform maintenance announcement date and time reset processing		1. Set the year, month, day to 0. 2. Set the FRAM write start flag to ON. 1. Acquired date and time data.	
req[5-7-6-8]	Maintenance announcement user start reset processing	Perform maintenance announcement user start reset processing		Acquire date and time data. Reset year, month, day to current value if the year, month, day of the maintenance announcement date and time are all 0.	
	Maintenance announcement renewal	Perform maintenance notice update date update		Turnon FRAM write start flag. Acquire date and time data.	
req[5-7-6-9]	processing Confirm existence of integrating alarm	processing Confirm existence of integrating alarm		Reset year, month, day to current value. Turnon FRAM write start flag. When the integral alarm is ON and the setting is ON, turn on the confirmation result.	
req[5-8-1-1]	Confirm existence of integrating alarm Confirm existence of flammable gas	Confirm existence of integrating alarm Confirm existence of flammable gas		Return the confirmation result. When the setting is ON, turn on the confirmation result.	
req[5-8-1-2]	-			2. Return the confirmation result.	
req[5-8-1-3]	Confirm existence of toxic gas	Confirm existence of toxic gas		When the setting is ON, turn on the confirmation result. Return the confirmation result.	
req[5-8-1-4]	Confirm whether 2ch is selected when 3ch is H2 can CO with gas	Confirm whether 2ch is selected when 3ch is H2 can CO with gas combination channel change		If the setting channel is 2 ch and 3 ch is H2 cancel CO, turn on the confirmation result. Return the confirmation result.	
req[5-8-1-5]	combination channel change Check gas combination channel	Check gas combination channel change or		When the item number is the maximum value, turn on the confirmation result.	
164[0-0-1-0]	change or ESCAPE display Gas combination channel selection	ESCAPE display Display process of gas combination channel selection		Return the confirmation result. If the item number is smaller than the maximum value, set display GAS_COMB and	
req[5-8-1-6]	display processing	is performed		display " ". 2. If the item number is greater than or equal to the maximum value, set display ESCAPE.	
req[5-8-1-7]	Gas combination setting display processing	Perfom gas combination setting display processing		Create character data corresponding to gas combination setting.	
	Gas combination setting end processing	Perfom gas combination setting end processing		Set gas data of nonvolatile memory. Gas data of concentration calculation data is set.	
req[5-8-1-8]				For sensors with 0ch to 3ch, reset RL78 communication setting. Turnon FRAM write start flag.	
<u></u>	Assignment of ON/OFF setting of gas	Perform assignment processing of ON/OFF setting		Return gas ON/OFF setting.	
req[5-8-2-1]	Assignment of ON/OFF setting of gas	of gas Perform assignment processing of ON/OFF setting		Return gas ON/OFF setting.	
req[5-8-2-2] req[5-8-2-3]	Set gas ON/OFF setting	of gas Perform setting process of ON/OFF setting of gas		When ON/OFF setting flag is OFF, turn ON/OFF setting of gas OFF.	
req[5-8-2-3] req[5-8-2-4]	Assigning ON/OFF of gas of RL78	Performs substitution processing of ON/OFF of gas		When ON/OFF setting flag is ON, turn ON/OFF setting of gas ON. Acquire gas ON/OFF setting of RL78.	
req[5-8-3-1]	Gas combination channel selection start processing	of RL78 Perfom gas combination channel selection start processing		Initialize item number. Turnoff up / down numerical value setting.	
req[5-8-3-2]	Gas combination setting start processing	Perform gas combination setting start processing		2. Turnoff up / down numerical value setting. 1. Insert gas setting in item number. 2. Turnoff up / down numerical value setting.	
	Change selection channel of gas combination channel	Change selection channel of gas combination channel		Include increment / decrement of numerical value in item number. When the up / down change setting of the numerical value is ON, the item number.	
req[5-8-3-3]				is counted down. 3. When the numerical up / down change setting is OFF, the item number is counted up.	
req[5-8-3-4]	Gas combination set value change processing	Perform change process of gas combination set value		1. If the up / down numeric value change setting is OFF, move the item upward. 2. If the up / down change setting of the number is ON, move the item downward. Contact in the up / down change setting of the number is ON, move the item downward.	
req[5-8-4-1]	Zero tracking setting display ON/OFF setting display processing Zero tracking setting display ON/OFF	Perform zero tracking setting display ON/OFF setting display processing Perform zero tracking setting display ON/OFF		Create a display of the ON/OFF setting menu corresponding to the zero tracking setting display ON/OFF setting. Insert item number in whether to display zero tracking ON/OFF setting in USER.	
req[5-8-4-2]	zero tracking setting display ON/OFF setting end processing Zero tracking setting display ON/OFF	setting end processing Perform zero tracking setting display ON/OFF Perform zero tracking setting display ON/OFF		In insert item number in whether to display zero tracking ON/OFF setting in USER. Turnor FRAM write start flag. Put in the item number whether to display the zero tracking ON/OFF setting in USER.	
req[5-8-4-3]	setting start processing Zero tracking setting display ON/OFF	setting start processing Perform zero tracking setting display ON/OFF		Put ON/OFF replacement processing in item number.	
req[5-8-4-4]	setting ON/OFF selection processing Zero tracking ON/OFF setting gas	zero tracking ON/OFF selection processing Zero tracking ON/OFF setting Performs gas selection		When gas is selected, character data corresponding to zero tracking ON/OFF setting gas	
req[5-8-4-5]	selection display	display		selection is created. 2. If gas is not selected, create character data corresponding to zero tracking ON/OFF setting as selection.	
	Zero tracking ON/OFF setting display processing	Perform zero tracking ON/OFF setting display processing		setting gas selection. 1. Create character data corresponding to zero tracking ON/OFF setting. 2. Flash character data.	
req[5-8-4-6]				Assign gas name / unit corresponding to zero tracking ON/OFF setting.	
req[5-8-4-7]	Zero tracking ON/OFF setting gas selection start processing	Zero tracking ON/OFF setting Performs gas selection start processing		Set item number. Turnoff up / down numerical value setting.	
req[5-8-4-8]	Zero tracking ON/OFF setting start processing	Perform zero tracking ON/OFF setting start process		Insert the ON/OFF setting of zero tracking in item number. If the up of draw suppose palse above a control is OFF, as a decision upward.	
req[5-8-4-9]	Zero tracking ON/OFF setting gas change	Zero tracking ON/OFF setting Performs gas change processing		If the up / down numeric value change setting is OFF, move the item upward. If the up / down change setting of the number is ON, move the item downward.	
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1.000000000000000000000000000000000000	req[5-8-4-10]	Zero tracking ON/OFF setting display item selection processing				
Company	see [E 0 4 44]				Insert item number into ON/OFF setting of zero tracking. Turnor FRAM write start flog.	
The content of the	red[5-8-4-11]					
### STATES OF THE PROPERTY OF	req[5-8-5-1]		Perform Suppress setting display ON/OFF setting display processing		Create display of ON/OFF setting menu corresponding to suppression setting display ON/OFF setting	
Commonwealth Comm	roof5.9.5.21	Suppress setting display ON/OFF	Perform Suppress setting display ON/OFF		Enter item number in USER to display suppression ON/OFF setting.	
March Company Compan	16q[3-0-3-2]					
Auto-	req[5-8-5-3]	setting start processing	setting start processing			
Authority	req[5-8-5-4]		Perform Suppress setting display ON/OFF setting ON/OFF selection processing		Put ON/OFF replacement processing in item number.	
A		Zero suppression ON/OFF setting	Zero subs ON/OFF setting gas change ESCAP			
Part	req[5-8-5-5]	confirmed	display or confirm		Return the confirmation result.	
March Marc	req[5-8-5-6]	Zero suppression ON/OFF setting gas			When gas is selected, copy the variable related to the zero subs ON/OFF setting.	
1.		Zero suppress ON/OFF setting	Perform zero suppress ON/OFF setting display		If das is not selected, create character data corresponding to the zero subs ON/OFF Create character data corresponding to zero subs ON/OFF setting.	
Michael Processor Communication and a communication of the communication	req[5-8-5-7]	display processing	processing			
West of the control		7	Dufano de la Composition de la			
West of Americans	req[5-8-5-8]	gas selection start processing	selection start processing		Set item number. Turnoff up / down numerical value setting.	
Services and control and a service control a	req[5-8-5-9]	Zero suppress ON/OFF setting	Perform zero suppress ON/OFF setting selection		Insert suppression ON/OFF setting in item number.	
April September Septembe					If the up / down numeric value change setting is OFF, move the item upward.	
Methods	req[5-8-5-10]				If the up / down change setting of the number is ON, move the item downward.	
Section Control Cont	roof6-9-6-111	Zero suppression ON/OFF setting	Perform zero suppression ON/OFF setting display			
Security Community Commu	1ed[2-0-2-11]					
March Marc	req[5-8-5-12]					
Marchester Mar		Count setting for backlight at USB	Performs backlight count setting process at USB		When the ON/OFF setting flag is ON, the USB disconnection count is set to 3 minutes.	
March of March Management Ma	req[6-1-1-1]	disconnection	disconnection		and the PC disconnection flag set is set ON.	
Coloniary Colo					and the PC disconnection flag set is set OFF.	
ACCOUNTS					Insert the ON/OFF setting flag into the backlight forced OFF flag.	-
Page 14 December 1 Process of the Control Cont						
1.					When measurement is in progress or in display mode, execute the following processing	
1						
					When the backlight timer is not 0, turn on the backlight ON/OFF setting flag.	
Belletia Booker (1907 and sping operation) See See See See See See See See See Se	req[6-1-1-5]				In the case of the communication mode, stop the fault alarm announcement or	
March Marc					the fault alarm.	
Security from group group process. Security from group group group process. Security from group group group. Security from group					the backlight ON/OFF setting flag.	
Section of the sect		Bartista (and Established	Out to Deal Fall Fall Out to CODM			
Soliday on surting original processory of the backgirth or safety or processory or a common original processory or a common or	req[6-1-1-6]	backlight forced lighting process for SDM	Set the Backlight Forced Un flag for SDM		1. Set SUM Backlight Forced On Flag ON.	
Active Star goales and star goales and star goales and starting with processing of processing of processing and processing of processing of processing and processing of processing and processing of processing and processing of processing and processing and processing of processing and proce		Backlight time setting display	Perform backlight time setting display processing		Convert the numerical value corresponding to backlight time setting to character data	
And a setting and processing of the control work of the control wo	req[6-1-2-1]	processing			and copy the variable. 2. Flash character data.	
Services		Backlight time setting and account	Porform booklight time setting and			
Seed that the water greater per control of the common control of t	req[6-1-2-2]	Backlight time setting end processing	Perform backlight time setting end processing			
Selection for until golden processors Selection for unti	rea[6-1-2-3]	Backlight time setting start processing	Perform backlight time setting start processing		Put the backlight lighting time in the item number.	
Security of the processor		Racklight time cotting display item	Perform hacklight time cetting display item			
Section of the process of the proc	req[6-1-2-4]	selection processing	selection processing			
Septimental Control (CAS) Framing and CAS (C	req[6-2-2-1]	Operation sound ON/OFF setting			Create display of ON/OFF setting menu corresponding to operation sound ON/OFF setting	
## of processing process In the processing process Processing process	-	Operation sound ON/OFF setting	Perform operation sound ON/OFF setting end		Insert item number into key operation sound ON/OFF setting.	
Membrane Common	req[6-2-2-2]	end processing	processing		Turnon FRAM write start flag.	
Question sourch DNDFF sample Question source DNDFF sample	req[6-2-2-3]				1. Put key operation sound UN/OFF setting in item number.	
1.00 The property of the conformation from processing process	rea[6-2-2-41	Operation sound ON/OFF setting	Operation sound ON/OFF setting Display item			
in the measurance of delays mode, this begin used section for set 20.00. If the measurance of delays mode, this begin used section of set 20.00. If the measurance of delays mode, this begin used section of the measurance of th	104[0-2-2-4]					
Confirmation team spendors team Purplem confirmation team grounds seat Description team Description	reg[6-3-1-1]				in the measurement or display mode, the beep use 1 second count is set to 30.	
Confirmation to tage growthin start processing processi	red[0-5-1-1]					
### The confirmation is Buildin Folk. It ender of the biddings continues and the supposed. ### The confirmation is Buildin Folk. It ender of the biddings continues and the supposed. ### The confirmation is the biddings and the supposed. ### The confirmation is the biddings and the supposed. ### The confirmation is the biddings and the supposed. ### The confirmation is the biddings and the supposed. ### The confirmation is the biddings and the supposed. ### The confirmation is the biddings and the supposed. ### The confirmation is the biddings and the supposed. ### The confirmation is the biddings and the supposed. ### The confirmation is the biddings and the biddings					If the confirmation is only LED lighting, only buzzer sound, either LED lighting or buzzer	
Anther fing under process Will control and the control of the con		processing	processing		sound, turn on the corresponding short buzzer. 2. If the confirmation is BUMP / CAL. if either of the following conditions 3 to 4 is satisfied.	
Active flag quadas process ORD 2-1-2] Active	req[6-3-1-2]				turn on the short buzzer corresponding to BUNP / CAL.	
for NCI dending for NC						
popular per la colora graphic processor of the following processor of the f			Update the active flag related to the NCI deadline			
Active flag profession process Active flag procession		for NCI deadline			perform the following processing 3 to 5.	
Active flag politice process for NCI active flag bump culibration. Update NCI's active flag to bump culibrated. Update NCI's active flag to NCI's active flag to bump culibrated. Update NCI's active flag to NCI's active flag to bump culibrated. Update NCI's active flag to NCI's active flag to bump culibrated. Update NCI's active flag to NCI's active flag to bump culibrated. Update NCI's active flag to NCI's activ	req[6-3-1-3]				If the bump expiration function is ON and the bump is expired, set the local flag to ON.	
Active flag guidate processor in Collection Services (Collection Services) and Collection Services (Collection Services) and Services (Collection Services)					flag to ON.	
for NCI start Control start		Activo flag undata process	Undate the active flag for NCI plot			
Case setting is ON and not broken.			opulate the active hag for INCT alert		2. If the following conditions 3 to 5 are satisfied, set the local flag to ON.	
S. Allm has from issued. In Clarifier fing bump calibration Option of the gluburg ca	req[6-3-1-4]					
NCI active flag but process Comparison of the process Comparison of the process					Alarm has been issued.	
Self-Personner and Personner		NCI active flag bump calibration	Update NCI's active flag to bump calibrated		Perform 2 if the selected gas active flag is not OFF.	
NCI Active Flag listery Domitocated NCI Active Flag listery Domitocated of a through a store for flag to Linear Science of the processing NCI Active Flag listery Domitocated of the picture of the processing NCI Active Flag listery Domitocated of the picture of t	roals 2.4.51				2. If the history download setting is ON, the process 3 is performed. In the case of OFF,	
A. Charge selected gas active flag to SEP.	req[0-3-1-5]				Change selected gas's active flag to bumped.	
ACL active flag ON processing Update NCTs active flag to ON 1. Perform 2 or the active flag of all the gas pagedes.	-	NCI Active Flag History Downloaded	Undate NCI's active flag to history downloaded		Change selected gas active flag to OFF. Perform 2 on the active flag of all five gas species.	
2. In case of valid gas type (number), process 3. 3. It his selected gas type (number), process 3. 3. It his selected gas type (number), process 3. 3. It his selected gas type (number), process 3. 3. It his selected gas type (number) and an EECP processing of the selection setting display selection in the confirmation beep selection. 1. Furth is team number in the confirmation beep selection. 2. Turnor FRAM write setting display selection in the selection setting set processing of the selection setting set processing of the selection setting set processing of the selection setting setting mode menu start processing of the selection setting setting selection setting selection setting setting selection sett	req[6-3-1-6]				If the active flag has already been bumped, set the active flag to OFF.	
See Padection setting display Perform BEEP selection setting display processing Perform BEEP selection setting and processing Perform BEEP selection setting setting mode mean start processing Perform BEEP selection setting start processing Perform BEEP setting mode menu item selection		NCI active flag ON processing	Update NCI's active flag to ON		Perform 2 on the active flag of all five gas species. In case of valid gas type (number) process 3.	
BEEP selection setting display processing Perform BEEP selection setting display processing 2. Flesh character data. 2. F	req[6-3-1-7]				If the selected gas type (number) is not an H2 compensated CO sensor,	
Perform BEEP time setting display processing		BEEP selection setting display	Perform BEEP selection setting display processing			
2. Convent number in the confirmation beep selection.	req[6-3-2-1]		DEET GOODIEST SURING Graphay processing			
2. Convent number in the confirmation beep selection.	-	BEEP time setting display processing	Perform BEEP time setting display processing		Create character data corresponding to BEEP time setting	
### SEP selection setting and processing Perform BEEP selection setting and processing Perform BEEP selection setting and processing Perform BEEP selection setting and processing Perform BEEP selection setting and processing Perform BEEP setting mode menu start processing Perform BEEP setting start processing Perform BEEP	rea[6-3-2-2]	unio satisfy display processing	DEET MINO Setting display processing		Convert numeric value corresponding to BEEP time setting to character data.	
EEP time setting end processing Perform BEEP time setting and processing 1. Put the tiem number in the confirmation beep time setting.	.04[0 0-2-2]				3. Flash character data.	
BEEP time setting end processing Perform BEEP time setting end processing Perform BEEP setting mode menu start processing Perform BEEP setting setting start processing Perform BEEP setting start processing Perform BEEP setting mode menu item Perform BEEP setting mode menu item Perform BEEP setting setting start processing Perform BEEP setting mode menu display processing Perform BEEP setting start processin	rea[6-3-2-3]	BEEP selection setting end processing	Perform BEEP selection setting end processing		Put the item number in the confirmation beep selection.	
EEP setting mode menu start processing 1. Initialize team number. 2. Tumorf tup / down numerical value setting. 1. Initialize team number. 2. Tumorf tup / down numerical value setting. 3. Tumorf tup / down numerical value in item number. 3. Tumorf tup / down numerical value in item numb		BEEP time setting and proceeding	Perform BEEP time setting and processing			
EEP setting mode menu item SEEP setting mode menu item Selection processing SEEP setting mode menu item Selection processing SEEP setting mode menu item Selection processing SEEP setting mode menu item Selection processing Selectio	req[6-3-2-4]				Turnon FRAM write start flag.	
Perform BEEP selection setting start processing Perform BEEP selection setting start processing	req[6-3-2-5]		Perform BEEP setting mode menu start processing		Initialize item number.	
EEP time setting start processing Perform BEEP time setting start processing 1. Confirmation begin the setting in item number.			Perform BEEP selection setting start processing		Confirmation Beep selection in item number.	
SEEP setting mode menu item Selection processing SeEP setting display item Selection processing SeEP setting display item Selection processing SeEP setting display item Selection processing SeEP setting mode menu display processing SeEP setting display processing SeEP setting display processing Set he NCI active flag to OFF Setting display processing Set he NCI active flag to OFF Setting display processing Set he NCI active flag to OFF Setting display processing Setting setting processing Setting s	req[6-3-2-6]				Change the number up and down.	
Fed[6-3-2-8] SEEP setting mode menu item selection processing selection setting display item selection processing	req[6-3-2-7]	BEEP time setting start processing	Perform BEEP time setting start processing			
Selection processing Selection setting display tem selection processing Selection processing Selection setting display tem selection processing Selection processing Selection setting display tem selection processing Selection setting display tem selection processing Selection processing Selection setting display tem Selection processing Selection processing Selection setting display tem Selection processing Selection processing Selection processing Selection setting display tem Selection processing	rea[6,3-2-9]	BEEP setting mode menu item	Perform BEEP setting mode menu item		•	
Selection processing perform BEEF pine setting display item selection processing neglectic processing perform BEEF setting mode menu display neglection processing perform BEEF setting mode menu display neglection processing neglection		selection processing	selection processing		1 Include increment / decrement of numerical value in item a value	
SEEP time setting display item SEEP time setting display item Seeting processing SEEP time setting display item Seeting processing Seeting proce	req[6-3-2-9]	selection processing	selection processing			
rea[6-3-21] NC lareful agriculture and isplay processing and perform BEEP setting mode menu display processing and processing	req[6-3-2-10]	BEEP time setting display item	Perform BEEP time setting display item selection		Include increment / decrement of numerical value in item number.	
processing pro					Create character data corresponding to BEEP setting mode.	
Linch break ONOFF setting display processing processi	req[6-3-2-11]	processing	processing			
Lunch break ONOFF setting display processing Perform lunch break ONOFF setting display processing Perform lunch break ONOFF setting display processing Perform lunch break ONOFF setting display processing 1. Create display of ONOFF setting menu corresponding to lunch break ONOFF setting perform lunch break ONOFF setting end processing 1. Insert item number into lunch break ONOFF setting. 2. Tumon FRAM write start flag. 1. Insert lunch break ONOFF setting start processing 1. Insert lunch break ONOFF setting in tem number. 1. Insert lunch break ONOFF setting in tem number. 1. Insert lunch break ONOFF setting in tem number. 1. Insert lunch break ONOFF setting in tem number. 1. Insert lunch break ONOFF setting in tem number. 1. Insert lunch break ONOFF setting in tem number. 1. Insert lunch break ONOFF setting in tem number. 1. Insert lunch break on the setting in the numb	req[6-3-2-12]	NCI active flag forced stop processing	Set the NCI active flag to OFF		Perform 2 on the active flag of all five gas species. Set the active flag to OFF.	
processing pro		Lunch break ON/OFF setting display				
resigned -1-42 processing processing processing 2. Tumon FRAM write start flag. resigned -1-43 processing processing 2. Tumon FRAM write start flag. resigned -1-43 processing processing 2. Tumon FRAM write start flag. 1. Insert lunch break ONOFF setting intern number. 1. Create display of ONOFF setting menu corresponding to lunch break ONOFF setting. It is decision processing selection processing selection processing selection processing and lunch break ONOFF setting. 1. Return lunch break ONOFF setting. It is decision processing and lunch break ONOFF setting. It is decision processing.	req[6-4-1-1]	processing	processing			
req[6-4-1-3] Lunch break ON/OFF setting start processing Lunch break ON/OFF setting start processing Lunch break ON/OFF setting display item selection processing selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting display item selection processing of Lunch break ON/OFF setting selection processing selectin processing selection processing selection processing selection	req[6-4-1-2]				Insert item number into lunch break ON/OFF setting. Turnon FRAM write start flag.	
Luch break ONOFF setting display item selection processing selection processing of lunch break ONOFF setting display item selection processing of lunch break ONOFF setting display item selection processing of lunch break ONOFF setting. 1. Create display of ONOFF setting menu corresponding to lunch break ONOFF setting.	regi6-4-1-21	Lunch break ON/OFF setting start				
FeqUin-41-43 item selection processing selection processing selection processing selection processing selection processing of lunch break ON/OFF setting 1. Return lunch break ON/OFF setting.			Perform lunch break ON/OFF setting display itom		Create display of ON/OFF setting manu corresponding to knock brook ON/OFF setting	
req[6-4-1-5] Acquisition processing of lunch break ONOFF setting O	req[6-4-1-4]		selection processing		Group display or Green is setting menu corresponding to lunch break ON/OFF setting.	
" - OPPOPT Sating	req[6-4-1-5]	Acquisition processing of lunch break	Acquire processing of lunch break ON/OFF setting		Return lunch break ON/OFF setting.	
		ON/OFF setting	1		1	I.

			İ	
	FRAM lunch break data is divided into specified bytes and written	Divide FRAM lunch break data into designated bytes and write	Insert the inverted value of FRAM_DATA in fram_back. Initialize pointer.	
req[6-4-2-1]			Specify the side to be written. Write data.	
			In addition, if there is a remainder less than M_FRAM_STACK_SIZE, write data. Writing the write count.	
			7. Return data write.	
	FRAM lunch break data update execution processing	Perform FRAM launch break data update execution processing	Substitute FRAM setting data size. Substitute the program number.	
			Copy the program number. Check SUM Update.	
req[6-4-2-2]			Reverse the A / B side of the rewriting surface.	
			When it is the A side, write on the A side. When it is the B side, write on the B side.	
	FRAM write processing of lunch	Perform FRAM write processing of lunch break data	If the face is unknown, write on both sides. If both ROM / RAM / FRAM are normal and measurement is in progress or in display.	
	break data	renomin train wite processing or functioned data	mode, execute the following processing 2 to 8.	
			Put the current concentration in the minimum and maximum values. Insert the current flag into the minus flag of the minimum value and the minus flag	
req[6-4-2-3]			of the maximum value. 4. Enter current time in occurrence time.	
			Initialize the integrated value of the average value every 60 seconds. Initialize the average value over all measurement time.	
			Initialize the integrated value from the start of measurement.	
			Initialize TWA value. Returns FRAM launch break data update execution processing.	
	Resume execution confirmation display	Display the resume execution confirmation	Acquire timeout time. Convert to seconds.	
req[6-4-3-1]			Create character data corresponding to resume execution confirmation.	
			 Convert the numerical value corresponding to resume execution confirmation into character data. 	
	Resume execution error display	Display resume execution error	Create character data corresponding to resume execution abnormality.	
req[6-4-3-2]				
req[6-4-3-3]	Resume invalid display	Display resume invalid	Create character data corresponding to invalid resume.	
req[6-4-3-4]	Resume execution display	Display the resume execution	Create character data corresponding to resume execution.	
req[6-4-3-5]	Save ON/OFF flag of resume	Resume ON/OFF setting flag save processing	Put the ON/OFF setting flag in the resume ON/OFF flag.	
	FRAM lunch break data LOAD	Perform FRAM lunch break data LOAD processing	Read FRAM lunch break data 2 sides.	
roof6-4-4-11	processing		Match write process. Compare which side is the latest.	
req[6-4-4-1]			Write on the old side. If you do not know which side is the latest, write on both sides.	
	EDAM road presenting of the sta	Porform ED AM road assessing of the state of	 Return judgment result.	
req[6-4-4-2]	FRAM read processing of lunch break data	Perform FRAM read processing of lunch break data	OK / NG flag on whether FRAM can be normally read is set to OK. If the FRAM lunch break data is readable, the OK / NG flag of whether FRAM can be	
	Lunch break status acquisition	Acquire lunch break status processing	normally read is set to NG. 1. Return OK / NG flag of whether it was able to read normally.	
req[6-4-4-3]	processing			
	Write lunch break data to processing buffer	Writes lunch break data to processing buffer	If the resume of lunch break is on and data can be normally read out of FRAM, execute the following processing 2 to 4.	
			Put the current concentration in the minimum and maximum values. Insert the current flag into the minus flag of the minimum value and the minus flag of	
			the maximum value. Enter current time in occurrence time.	
req[6-4-4-4]			Initialize the integrated value of the average value every 60 seconds.	
			Initialize the average value over all measurement time. Initialize the integrated value from the start of measurement.	
			8. Initialize TWA value.	
req[6-5-1-1]	Confirm ON/OFF of ID display setting	Confirm ON/OFF of ID display setting	Return ID display ON/OFF setting.	
req[6-5-1-2]	ID display ON/OFF setting display processing	Perform ID display ON/OFF setting display processing	Create display of ON/OFF setting menu corresponding to ID display ON/OFF setting.	
req[6-5-1-3]	ID display ON/OFF setting end	Perform ID display ON/OFF setting end	Insert item number into ID display ON/OFF setting.	
	processing ID display ON/OFF setting start	processing Perform ID display ON/OFF setting start	Turnon FRAM write start flag. Insert ID display ON/OFF setting in item number.	
req[6-5-1-4]	processing	processing		
req[6-5-1-5]	ID display ON/OFF setting ON/OFF selection processing	Perform ID display ON/OFF setting ON/OFF selection processing	Put ON/OFF replacement processing in item number.	
		Perform Station ID setting display processing	Create character data corresponding to station ID setting.	
req[6-5-2-1]			Flash character data.	
req[6-5-2-2]	Station ID setting end processing	Perform Station ID end display processing	Place the item number in the selected position of the station ID. Turnon FRAM write start flag.	
req[6-5-2-3]	Station ID setting start processing	Perform Station ID start display processing	Put the selection position of the station ID in the item number.	
	Station ID setting display item	Perform Station ID setting display item	Turnoff up / down numerical value setting. Include increment / decrement of numerical value in item number.	
req[6-5-2-4]		selection processing		
	selection processing			
req[6-5-3-1]	User ID setting display processing	Perform User ID setting display processing	Create character data corresponding to user ID setting. Flash character data.	
	User ID setting display processing	Perform User ID setting display processing	Flash character data.	
req[6-5-3-1] req[6-5-3-2]	User ID setting display processing User ID setting end processing	Perform User ID setting display processing Perform User ID setting end processing	Flash character data. Place the item number in the selection position of the user ID. Turnon FRAM write start flag.	
	User ID setting display processing	Perform User ID setting display processing	Flash character data. Place the item number in the selection position of the user ID.	
req[6-5-3-2]	User ID setting display processing User ID setting end processing User ID setting start processing User ID setting start processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection	Flash character data. Place the item number in the selection position of the user ID. Tumon FRAM write start flag. I. Insert selection position of user ID in item number.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4]	User ID setting display processing User ID setting end processing User ID setting start processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnoff up / down numerical value setting.	
req[6-5-3-2]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FAAM default success confirmation processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumoff up / down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4]	User ID setting display processing User ID setting end processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform EARM default success confirmation	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof try 0 down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted abornmal eff.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default success confirmation	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FAAM default success confirmation processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Incert selection position of user ID in item number. 2. Turnoff up / down numerical value setting. 1. Includes increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is the default abnormal end, return off. 1. Default processing of FFAM data for gas. calc. c.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2]	User ID setting display processing User ID setting end processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAMFs	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default and confirmation processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnoff up / down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is the default anormal end, return off. 1. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data_defector. c. 1. Default processing of FRAM data.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2] req[6-6-1-3]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's CHIK_DATA area FRAM default processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default end confirmation processing Perform default processing of FRAM's CHK, DATA area Perform FRAM default processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof Ip / John numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data_defactor. c. 1. Default processing of FRAM's CHK, DATA area. 2. Default processing of FRAM's CHK, DATA area.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default of confirmation processing Default processing of FRAM's CHK, DATA area FRAM default processing FRAM default processing FRAM default processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting start processing Perform FRAM default success confirmation processing Perform FRAM default end confirmation processing Perform RRAM default processing of FRAMs CMK, DATA area Perform FRAM default processing Perform FRAM default processing Perform FRAM default start processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumoff up / down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAMS CHK, DATA area. 2. Default processing of FRAMS ch for data, placetor. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data, placetor. 2. Insert FRAM data initialization into default request flag. 1. Perform default processing of corresponding to the default phase.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2] req[6-6-1-3] req[6-6-1-4] req[6-6-1-5]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's CHK_DATA area FRAM default processing FRAM default processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FLAM default success confirmation processing Perform FRAM default end confirmation processing Perform FRAM default processing of FRAM's CHK_DATA area Perform FRAM default processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumoff up / down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not default shorward and, return off. 2. If the default processing of FRAM data for gas, caic. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. c. 2. Default processing of FRAM data for data, deplector. c. 1. Insert FRAM data initialization into default request flag.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2] req[6-6-1-3] req[6-6-1-4] req[6-6-1-5] req[6-6-1-6] req[6-6-1-7]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default processing FRAM default processing FRAM default start processing FRAM default start processing FRAM default of station ID data to station ID data Default processing of FRAM distat for station ID data	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default end confirmation processing Perform RAM default processing Perform RAM default start processing Perform RAM main loop default processing Perform PEAM data for starting to default processing Perform Default processing of RAM data for station ID data Perform Default processing of FRAM data for station ID data	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumoff up / down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAMS CHK, DATA area. 2. Default processing of FRAMS ch for data, placetor. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data, placetor. 2. Insert FRAM data initialization into default request flag. 1. Perform default processing of corresponding to the default phase.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-7]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM SCHK_DATA area FRAM default processing FRAM default processing FRAM default processing of FRAM distat for station ID data To be processing of FRAM distat for user ID data Address setting processing of FRAM distat for user ID data	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting start processing Perform BrAM default success confirmation processing Perform FRAM default end confirmation processing Perform RFAM default end confirmation processing Perform RFAM default processing of FRAMs CMK, DATA area Perform FRAM default processing Perform FRAM default processing Perform PRAM default start processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof try Johan numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for glas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM sch for data placetor. 2. Default processing of FRAM data for data, objector. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data, 10 perform. 1. Perform default processing of FRAM data for data judger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2] req[6-6-1-3] req[6-6-1-4] req[6-6-1-5] req[6-6-1-6] req[6-6-1-7]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing FRAM detault success confirmation processing FRAM detault and confirmation processing Office, DRTA area FRAM default processing of FRAMs FRAM default processing FRAM detault processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FAM default success confirmation processing Perform FAM default end confirmation processing Perform FAM default processing of FRAMs OHK_DATA area Perform FRAM default processing Perform FRAM default processing Perform PRAM default start processing Perform PRAM default start processing Perform FRAM default start processing Perform Gefault processing of FRAM data for station ID data Perform default processing of FRAM data for such ID data Perform default processing of FRAM data for such ID data Perform default processing of FRAM data for such ID data Perform address setting of FRAM data for body data	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumof Iray fown numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted neuronal end, return off. 1. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM store for data, defector. c. 1. Default processing of FRAM store for data, objector. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data. 1. Perform default processing of FRAM data for user ID data. 1. Default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data. 1. Perform default processing of FRAM data for user ID data. 1. Perform address setting of FRAM data for main body data.	
req[6-5-3-2] req[6-5-3-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-7]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM SCHK_DATA area FRAM default processing FRAM default processing FRAM default processing of FRAM distat for station ID data To be processing of FRAM distat for user ID data Address setting processing of FRAM distat for user ID data	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default success confirmation processing Perform FRAM default end confirmation processing Perform RRAM default processing of FRAM SOMK, DATA area Perform FRAM default processing Perform PRAM default processing Perform PRAM default start processing Perform PRAM default processing of FRAM data for station ID data Perform default processing of FRAM data for station ID data	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumof Izer John numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM self not drata, placetor. 2. Default processing of FRAM data for data, placetor. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data placetor. 1. Perform default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data.	
rea[6-5-3-2] rea[6-5-3-3] rea[6-5-3-4] rea[6-6-1-2] rea[6-6-1-3] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-7] rea[6-6-1-8]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's FRAM default processing FRAM default start processing FRAM default processing FRAM default processing of FRAM default for user ID data Address setting processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for ges data	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Default processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for perform defeault processing of FRAM data for page 10 perform defeault processing of FRAM data for page 10 perform defeault processing of FRAM data for page 10 perform defeault processing of FRAM data for page 10 perform defeault processing of FRAM data for page 10 perform defeault processing of FRAM data for page 10 perform defeault processing of FRAM data for page 10 perform defeault processing 10 perform defeault proc	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumof Iray fown numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted neuronal end, return off. 1. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM store for data, defector. c. 1. Default processing of FRAM store for data, objector. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data. 1. Perform default processing of FRAM data for user ID data. 1. Default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data. 1. Perform default processing of FRAM data for user ID data. 1. Perform address setting of FRAM data for main body data.	
req(6-5-3-2) req(6-5-3-4) req(6-6-1-1) req(6-6-1-2) req(6-6-1-3) req(6-6-1-6) req(6-6-1-6) req(6-6-1-6) req(6-6-1-6) req(6-6-1-6) req(6-6-1-1) req(6-6-1-1) req(6-6-1-1)	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's FRAM default processing f FRAM distate for user ID data Address setting processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for pas data Default processing of FRAM data for Default processing of FRAM display processing Default and processing of PRAM departs of the processing Default and processing Default processing Def	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default end confirmation processing Perform FRAM default processing of FRAMs CHK_DATA area Perform FRAM default processing Perform PRAM default start processing Perform RAM default start processing Perform default processing of FRAM data for such ID data Perform address setting of FRAM data for body data Perform default processing of FRAM data for gas default processing default processing of FRAM data for gas default processing of FRAM data for gas default processing defaul	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumof Iray fown numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted neuronal end, return off. 1. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data_delector. c. 1. Default processing of FRAM self or data_delector. 2. Default processing of FRAM data for data_loger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data_loger. 1. Perform default processing of FRAM data for sation ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for main body data. 1. Default processing of FRAM data for main body data. 1. Default processing of FRAM data for gas data.	
req[6-5-32] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-1] req[6-6-1-1] req[6-6-1-1] req[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing FRAM detault success confirmation processing FRAM detault end confirmation processing FRAM detault end confirmation processing FRAM default processing of FRAMs CHK_DATA area FRAM default processing FRAM default processing FRAM default processing of FRAM data for each processing of FRAM data for each processing of FRAM data for each processing of FRAM data for main body data Default processing of FRAM data for gas data Default abnormal end display processing Default abnormal end display processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform Iser ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default processing of FRAM's CHK_DATA area Perform FRAM default processing of PRAM data for Setting ID default processing of PRAM data for Setting ID data	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumof Iray fown numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM for for data, placetor. 2. Default processing of FRAM data for data, placetor. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for user ID data. 1. Default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Create character data corresponding to default confirmation.	
req(6-5-3-2) req(6-5-3-4) req(6-6-1-1) req(6-6-1-2) req(6-6-1-3) req(6-6-1-6) req(6-6-1-6) req(6-6-1-6) req(6-6-1-6) req(6-6-1-6) req(6-6-1-1) req(6-6-1-1) req(6-6-1-1)	User ID setting display processing User ID setting and processing User ID setting attractorized processing User ID setting display item selection processing FRAM detail success confirmation processing FRAM detail success confirmation processing Default processing of FRAM's CHK DATA area FRAM default processing of FRAM detail processing Default processing of FRAM data for display processing of FRAM detail processing of FRAM data for the processing of FRAM data for the processing of FRAM data for display processing of FRAM data for display processing of FRAM data for display processing of FRAM data for main body data Default processing of FRAM data for gas data Default processing of processing of FRAM data for gas data Default processing of processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform Iser ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default end confirmation processing Perform FRAM default processing of FRAM's CHK_DATA area Perform FRAM default processing Perform FRAM default processing Perform FRAM default start processing Perform GraM main loop default processing Perform GraM main loop default processing Perform GraM default start processing Perform default processing of FRAM data for satisficial to disast in Didata Perform default processing of FRAM data for paddata Display default confirmation processing Display default abnormal end processing Display default normal completion processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumon IPA down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted neuronal end, return off. 1. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data_delector. c. 1. Default processing of FRAM data for data_delector. 2. Default processing of FRAM data for data_loger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for gas data. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end.	
req[6-5-32] req[6-5-3-4] req[6-6-1-1] req[6-6-1-2] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-1] req[6-6-1-1] req[6-6-1-1] req[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's FRAM default processing FRAM default processing FRAM default processing FRAM default processing FRAM distart processing FRAM distart processing of FRAM distart for user ID data Address setting processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for Default processing of FRAM display processing Default and processing of PRAM desays of the processing Default and processing Default processing Default and processing Default default and display processing Default and processing Default default and display processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform Iser ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default processing of FRAM's CHK_DATA area Perform FRAM default processing of PRAM data for Setting ID default processing of PRAM data for Setting ID data	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumof IP y down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted neuronal end, return off. 1. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, offector. 2. Default processing of FRAM data for data, offector. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for gas data. 1. Create character data corresponding to the default. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default abnormal end.	
req[6-5-3] req[6-5-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-7] req[6-6-1-7] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10]	User ID setting display processing User ID setting and processing User ID setting and processing User ID setting display them selection processing FRAM default success confirmation processing FRAM default end confirmation processing Oefault processing of FRAM's CHIC DATA area FRAM default processing FRAM default processing FRAM default processing Oefault processing of FRAM data for station ID data for main body data Default processing of FRAM data for user ID data for main body data Default processing of FRAM data for gas data Default processing of FRAM data for set on the ID data for main body data Default processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM data for gas data Default abnormal end display processing Default normal completion display processing Default running display processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform Iser ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default end confirmation processing Perform FRAM default processing of FRAM's CHK_DATA area Perform FRAM default processing Perform FRAM default processing Perform FRAM default start processing Perform GraM main loop default processing Perform GraM main loop default processing Perform GraM default start processing Perform default processing of FRAM data for satisficial to disast in Didata Perform default processing of FRAM data for paddata Display default confirmation processing Display default abnormal end processing Display default normal completion processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof IPA down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Include increment / decrement of numerical value in item number. 1. Returns the default request lag is not defaulted, return off. 1. If the default request flag is in dedealat abnormal end, return off. 2. Default processing of FRAM data for gas, cafe. c. 2. Default processing of FRAM data for data, deport. 1. Default processing of FRAM data for data, deport. 2. Default processing of FRAM data for data, logger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data in the Company of the Company of the Company of FRAM data for data in the Company of the Company of FRAM data for data in the Company of the Company of FRAM data for data in the Company of the Company of the Company of FRAM data for data in the Company of the C	
req[6-5-32] req[6-5-3-3] req[6-5-3-4] req[6-6-1-2] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default processing of FRAM deta CHIK_DATA area FRAM default processing FRAM default processing FRAM default start processing FRAM default start processing FRAM default start processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for gas data Default processing of FRAM data for gas data Default start processing of FRAM data for gas data Default processing of PRAM data for gas	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM disfault success confirmation processing Perform RAM disfault success confirmation processing Perform RAM disfault processing of FRAM's CHK_DATA area Perform RAM disfault processing Perform RAM disfault processing Perform RAM disfault processing Perform RAM disfault processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default confirmation processing Display default normal completion processing Display default normal completion processing Perform default processing of ISAM display processing Perform default processing of logger function	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof try Johan numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not default abnormal end, return off. 1. Default processing of FRAM data for data, depoted. 1. Default processing of FRAM data for data, depoted. 2. Default processing of FRAM for for data, depoted. 3. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data. 1. Perform default processing of FRAM data for data. 1. Perform default processing of FRAM data for data. 1. Perform default processing of FRAM data for data. 1. Perform default processing of FRAM data for data. 1. Perform default processing of FRAM data for data. 1. Perform address setting of FRAM data for main body data. 1. Default processing of FRAM data for data. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default abnormal end. 1. Create character data corresponding to default abnormal end. 1. Il logger is of defaulted, make the result running. 2. If logger is of defaulted, make the result running.	
req[6-5-3] req[6-5-3] req[6-5-3-4] req[6-6-1-1] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-7] req[6-6-1-7] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10]	User ID setting display processing User ID setting and processing User ID setting and processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Orefault processing of FRAM's CHIC DATA area FRAM default processing FRAM default processing Default processing of FRAM data for station ID data to main body data Default processing of FRAM data for user ID data for main body data Default processing of FRAM data for gas data Default nonmal confirmation display processing Default running display processing	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default end confirmation processing Perform FRAM default processing of FRAM's CHK_DATA area Perform FRAM default processing Perform FRAM default processing Perform FRAM default start processing Perform FRAM default start processing Perform FRAM data for processing of FRAM data for start of the start of the start of the start of the start ID data Perform Address setting of FRAM data for start ID data Perform default processing of FRAM data for goad data Display default confirmation processing Display default normal completion processing Display default normal completion processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof IPA down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data place, c. 2. Default processing of FRAM data for data place, c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for user ID data. 1. Perform address setting of FRAM data for user ID data. 1. Perform address setting of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 1. If logger is defaulted, make the result running.	
rea[6-5-32] rea[6-5-3] rea[6-5-34] rea[6-6-1-3] rea[6-6-1-5] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-6] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM detail success confirmation processing FRAM detail the confirmation processing of FRAM detail the station ID data the processing of FRAM data for main body data Default processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM detail to main processing of FRAM detail to main body data Default processing of FRAM data for gas data Default processing of Default normal completion display processing Default normal completion display processing Default processing of logger function Default processing of logger function Default processing of logger function	Perform User ID setting display processing Perform User ID setting end processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform FRAM default success confirmation processing Perform FRAM default end confirmation processing Perform FRAM default processing of FRAMs CHK_DATA area Perform FRAM default processing Perform FRAM default start processing Perform GRAM default start processing Perform default processing of FRAM data for start on ID data Perform default processing of FRAM data for pass data Display default confirmation processing Display default confirmation processing Display default normal completion processing Perform default running display processing Perform default processing of logger function Perform default processing of ID_DATA area of	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof try John numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data_defector. c. 1. Default processing of FRAM for for data_logger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform data processing of FRAM data for data_logger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data. 1. Perform address setting of FRAM data for main body data. 1. Default processing of FRAM data for data in the control of the	
rea[6-5-3] rea[6-5-3] rea[6-5-3] rea[6-5-3] rea[6-6-1-3] rea[6-6-1-5] rea[6-6-1-6] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default end confirmation processing FRAM default processing FRAM default processing FRAM default processing FRAM default start processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM default processing Default processing of FRAM default processing Default processing of Inguilt processing	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Betall processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default shormal end processing Display default normal completion processing Perform default processing of ID_DATA area of FRAM Perform default processing of logger function	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof IPA down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default secution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 1. Default processing of FRAM data for gas, calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data, logger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for main body data. 1. Default processing of FRAM data for main body data. 1. Create character data corresponding to the default denament of the data corresponding to the default confirmation. 1. Create character data corresponding to default abnormal end. 1. Create character data corresponding to default execution. 1. If logger is defaulted, make the result unning. 2. If logger is defaulted, make the result unning. 2. If logger is defaulted, make the result unning. 2. If logger is of created of the result is ended. 3. Return results. 1. Default processing of FRAM, ST, ID data. 2. Default processing of FRAM, ST, ID data. 2. Coguire the result of FLASH status byte read processing. 3. In the state where FLASH can be written, erase the especified block of FLASH.	
rea[6-5-3] rea[6-5-3] rea[6-5-3] rea[6-5-3] rea[6-6-1-3] rea[6-6-1-5] rea[6-6-1-6] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default end confirmation processing FRAM default processing FRAM default processing FRAM default processing FRAM default start processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM default processing Default processing of FRAM default processing Default processing of Inguilt processing	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Betall processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default shormal end processing Display default normal completion processing Perform default processing of ID_DATA area of FRAM Perform default processing of logger function	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof IPA down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Include increment / decrement of numerical value in item number. 1. Include increment / decrement of numerical value in item number. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for data, delector. c. 1. Default processing of FRAM data for data, delector. c. 1. Default processing of FRAM data for data, delector. 2. Default processing of FRAM data for data, of delevant processing of FRAM data for data, delevant processing of FRAM data for data, of delevant processing of FRAM data for delevant processing of FRAM data for data, of delevant confirmation. 1. Create character data corresponding to default execution. 1. If logger is defaulted, make the result running. 2. If logger is defaulted, make the result running. 2. If logger is defaulted, make the result running. 3. If delay processing of FRAM, ST, ID data. 1. Clear the status of logger data. 1	
req[6-5-32] req[6-5-3-3] req[6-5-3-4] req[6-6-1-2] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-10] req[6-6-1-10] req[6-6-1-11] req[6-6-1-12] req[6-6-1-12] req[6-6-1-13] req[6-6-1-14] req[6-6-1-14]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default end confirmation processing FRAM default processing FRAM default processing FRAM default processing FRAM default start processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM default processing Default processing of FRAM default processing Default processing of Inguilt processing	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Betall processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default shormal end processing Display default normal completion processing Perform default processing of ID_DATA area of FRAM Perform default processing of logger function	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumon FRAM write start flag. 1. Include increment of user ID in item number. 1. Include increment of user ID in item number. 1. Include increment of user ID in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted network off. 2. If the default request flag is not defaulted network off. 2. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data_defector. c. 1. Default processing of FRAM data for data_logger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for user ID data. 1. Perform default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for gas data. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 2. Lefault processing of FRAM, ST_ID data. 2. Default processing of FRAM, ST_ID data. 2. Default processing of FRAM, ST_ID data. 3. Return results. 1. Default processing of FRAM, ST_ID data. 2. Default processing of FRAM, ST_ID data. 3. Return results. 1. In Legal is not defaulted, the result is ended. 3. Return results. 1. Create character data corresponding to default execution. 1. If logger is not defaulted, the result is ended. 3. Return results. 1. Create character data corresponding to defaul	
rea[6-5-3] rea[6-5-3] rea[6-5-3] rea[6-5-3] rea[6-6-1-3] rea[6-6-1-5] rea[6-6-1-6] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1] rea[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default end confirmation processing FRAM default processing FRAM default processing FRAM default processing FRAM default start processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM default processing Default processing of FRAM default processing Default processing of Inguilt processing	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Betall processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default shormal end processing Display default normal completion processing Perform default processing of ID_DATA area of FRAM Perform default processing of logger function	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof try John numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 1. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, object. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for user ID data. 1. Perform address processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 2. Legist not defaulted, the result turning. 2. If logger is not defaulted, the result sit ended. 3. Return results. 1. Default processing of FRAM, USER ID data. 2. Default processing of PRAM, USER ID data. 2. Legist to rot defaulted, the result selection. 3. Return results. 3. In the state where FLASH can be written, resec the specified bl	
req[6-5-32] req[6-5-3-3] req[6-5-3-4] req[6-6-1-2] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-10] req[6-6-1-10] req[6-6-1-11] req[6-6-1-12] req[6-6-1-12] req[6-6-1-13] req[6-6-1-14] req[6-6-1-14]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default end confirmation processing FRAM default processing FRAM default processing FRAM default processing FRAM default start processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM default processing Default processing of FRAM default processing Default processing of Inguilt processing	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Betall processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default shormal end processing Display default normal completion processing Perform default processing of ID_DATA area of FRAM Perform default processing of logger function	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof try John numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas, calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM for for data, depend. 2. Default processing of FRAM data for data, objector. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data. 1. Perform default processing of FRAM data for station ID data. 1. Perform address setting of FRAM data for main body data. 1. Default processing of FRAM data for main body data. 1. Default processing of FRAM data for main body data. 1. Create character data corresponding to the default phase. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default execution. 1. If logger is of ofdaulted, the result is ended. 3. Return results. 1. Default processing of FRAM, ST. ID data. 2. Default processing of FRAM, ST. ID data. 2. Default processing of FRAM, ST. ID data. 2. Create character data corresponding to default execution. 3. Return results. 3. In the state where FLASH can we written, execute the following processing of FRAM, ST. ID data. 2. Acquire the result of FLASH can not be written, execute the following processing of FRAM, ST. ID data. 3. Coult the default data for the logger error state. 3. Turnoff th	
req[6-5-32] req[6-5-3-3] req[6-5-3-4] req[6-6-1-2] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-10] req[6-6-1-10] req[6-6-1-11] req[6-6-1-12] req[6-6-1-12] req[6-6-1-13] req[6-6-1-14] req[6-6-1-14]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default end confirmation processing FRAM default processing FRAM default processing FRAM default processing FRAM default start processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM default processing Default processing of FRAM default processing Default processing of Inguilt processing	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Betall processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default shormal end processing Display default normal completion processing Perform default processing of ID_DATA area of FRAM Perform default processing of logger function	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumon FRAM write start flag. 1. Include increment of ourser ID in item number. 1. Include increment of cerement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted number. 1. If the default request flag is not defaulted number of the control of the c	
req[6-5-32] req[6-5-3-3] req[6-5-3-4] req[6-6-1-7] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting start processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing FRAM default end confirmation processing FRAM default processing FRAM default processing FRAM default processing FRAM default start processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for gas data Default processing of FRAM data for gas data Default processing of FRAM default processing Default processing of FRAM default processing Default processing of Inguilt processing	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Betall processing of FRAM data for station ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default shormal end processing Display default normal completion processing Perform default processing of ID_DATA area of FRAM Perform default processing of logger function	2. Flash character data. 1. Place hitem number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumon FRAM write start flag. 1. Include increment of user ID in item number. 1. Include increment of user ID in item number. 1. Include increment of user ID in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted neturn off. 2. If the default request flag is not defaulted neturn off. 2. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, depector. 3. Default processing of FRAM data for data, depector. 4. Insert FRAM data initialization into default request flag. 4. Perform default processing of FRAM data for user ID data. 4. Perform default processing of FRAM data for user ID data. 4. Default processing of FRAM data for user ID data. 4. Default processing of FRAM data for user ID data. 4. Default processing of FRAM data for user ID data. 4. Default processing of FRAM data for user ID data. 4. Default processing of FRAM data for gas data. 5. Default processing of FRAM data for gas data. 6. Create character data corresponding to default confirmation. 6. Create character data corresponding to default normal end. 7. Create character data corresponding to default normal end. 7. Create character data corresponding to default normal end. 8. Return results. 1. Default processing of FRAM, ST_ID data. 2. Default processing of FRAM, ST_ID data. 2. Default processing of FRAM, ST_ID data. 3. Return results. 5. Return results. 6. Saf FRAM data for data, Joger. c. to the default state. 7. Intrinatice the logger darct on one to written, execute the following processing 5 to 12. 8. Saf FRAM data for data, Joger. c. to the default state. 8. In the case where the FLASH can be written, execute the following processing 5 to 12. 8. Saf FRAM data for data, Joger. c. to t	
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req[6-5-32] req[6-5-3-3] req[6-5-3-4] req[6-6-1-7] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's FRAM default processing FRAM main loop default processing FRAM default processing of FRAM data for station ID data Default processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of ID Default processing Default processing of IQ data for user ID data Default processing of IQ data for user ID data Default processing of IQ DATA area of FRAM Logger default	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM data processing of RAM data for station ID data Perform BAM default processing of RAM data for user ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default confirmation processing Display default abnormal end processing Perform default processing of ID part area of RAM Perform default processing of ID DATA area of RAM Perform default processing of ID DATA area of RAM Perform logger default processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof IPA down numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return oft. 2. If the default request flag is not defaulted, return oft. 2. If the default request flag is not defaulted abordmal end, return off. 1. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. 2. Default processing of FRAM data for data, default of data. 3. Perform default processing of FRAM data for data in the processing of FRAM data for data, depault of data. 4. Perform default processing of FRAM data for data in the processing of FRAM data for data. 5. Perform default processing of FRAM data for data for data. 6. Perform default processing of FRAM data for main body data. 1. Perform address setting of FRAM data for main body data. 1. Perform address setting of FRAM data for main body data. 1. Perform address setting of FRAM data for main body data. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default abnormal end. 1. Create character data corresponding to default execution. 1. If logger is defaulted, make the result running. 2. If logger is defaulted, make the result running. 2. If logger is defaulted, make the result running. 3. Default processing of FRAM, USER, ID data. 1. Default processing of FRAM setting byte read processing. 2. Acquire the result of Add. Jogger, c. to the default state. 7. Initiatize the logger function. 8. Record the default value of every of the logger error state. 9. Record the default value of every of the logger error state. 9. Record the default value of every of the logger erro	
req[6-5-32] req[6-5-3-3] req[6-5-3-4] req[6-6-1-7] req[6-6-1-3] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-1]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's FRAM default processing FRAM main loop default processing FRAM default processing of FRAM data for station ID data Default processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of ID Default processing Default processing of IQ data for user ID data Default processing of IQ data for user ID data Default processing of IQ DATA area of FRAM Logger default	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM data processing of RAM data for station ID data Perform BAM default processing of RAM data for user ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default confirmation processing Display default abnormal end processing Perform default processing of ID part area of RAM Perform default processing of ID DATA area of RAM Perform default processing of ID DATA area of RAM Perform logger default processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumon FRAM write start flag. 1. Include increment of our user ID in item number. 1. Include increment of user ID in item number. 1. Include increment of cerement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted number of the control	
rea[6-5-3-2] rea[6-5-3-4] rea[6-5-3-4] rea[6-6-1-1] rea[6-6-1-2] rea[6-6-1-4] rea[6-6-1-4] rea[6-6-1-6] rea[6-6-1-8] rea[6-6-1-8] rea[6-6-1-10] rea[6-6-1-11] rea[6-6-1-12] rea[6-6-1-12] rea[6-6-1-12] rea[6-6-1-14] rea[6-6-1-15]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's FRAM default processing FRAM main loop default processing FRAM default processing of FRAM data for station ID data Default processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of ID Default processing Default processing of IQ data for user ID data Default processing of IQ data for user ID data Default processing of IQ DATA area of FRAM Logger default	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM data processing of RAM data for station ID data Perform BAM default processing of RAM data for user ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default confirmation processing Display default abnormal end processing Perform default processing of ID part area of RAM Perform default processing of ID DATA area of RAM Perform default processing of ID DATA area of RAM Perform logger default processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumon FRAM write start flag. 1. Include increment of user ID in item number. 1. Include increment of user ID in item number. 1. Include increment of user ID in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted neturn off. 2. If the default request flag is not defaulted neturn off. 2. If the default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. 2. Default processing of FRAM data for data, logger. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for user ID data. 1. Perform default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for gas data. 1. Default processing of FRAM data for gas data. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 2. Return results. 2. Il logger is defaulted, make the result running. 2. Il logger is defaulted, make the result running. 2. Il logger is defaulted, make the result running. 2. Il logger is defaulted, make the result running. 3. Return results. 3. Return results. 4. Default processing in FRAM, USER, ID data. 2. Come the state where IR.ASH can be written, reace the specified block of FLASH. 4. In the case where the FLASH can not be written, reace the spe	
rea[6-5-3-2] rea[6-5-3-4] rea[6-5-3-4] rea[6-6-1-1] rea[6-6-1-2] rea[6-6-1-4] rea[6-6-1-4] rea[6-6-1-6] rea[6-6-1-8] rea[6-6-1-8] rea[6-6-1-10] rea[6-6-1-11] rea[6-6-1-12] rea[6-6-1-12] rea[6-6-1-12] rea[6-6-1-14] rea[6-6-1-15]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default end confirmation processing Default processing of FRAM's FRAM default processing FRAM main loop default processing FRAM default processing of FRAM data for station ID data Default processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Address setting processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of FRAM data for user ID data Default processing of ID Default processing Default processing of IQ data for user ID data Default processing of IQ data for user ID data Default processing of IQ DATA area of FRAM Logger default	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM data processing of RAM data for station ID data Perform BAM default processing of RAM data for user ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default confirmation processing Display default abnormal end processing Perform default processing of ID part area of RAM Perform default processing of ID DATA area of RAM Perform default processing of ID DATA area of RAM Perform logger default processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof try Advon numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for gas, calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM for for data, depend. 1. Default processing of FRAM data for data, depend. 2. Default processing of FRAM data for data, object. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for station ID data. 1. Perform default processing of FRAM data for station ID data. 1. Perform address setting of FRAM data for main body data. 1. Default processing of FRAM data for main body data. 1. Default processing of FRAM data for main body data. 1. Create character data corresponding to the default phase. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default execution. 1. If logger is of ofdaulted, the result is ended. 3. Return results. 1. Default processing of FRAM, ST, ID data. 2. Default processing of FRAM, ST, ID data. 3. Return results. 1. The data benefaulted, make the result unining. 2. A captive the result of FLASH can not be written, execute the following processing of FRAM, ST, ID data. 2. Requert of the power of the logger error state. 3. Return processing of FRAM, ST, ID data.	
req[6-5-3-2] req[6-5-3-4] req[6-5-3-4] req[6-6-1-2] req[6-6-1-2] req[6-6-1-4] req[6-6-1-4] req[6-6-1-6] req[6-6-1-8] req[6-6-1-8] req[6-6-1-10] req[6-6-1-10] req[6-6-1-11] req[6-6-1-12] req[6-6-1-12] req[6-6-1-14] req[6-6-1-15]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default successing of FRAM's CHK_DATA area FRAM default processing f FRAM default for user ID data Address setting processing of FRAM default processing Default processing of FRAM default Default processing Logger default	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM didault success confirmation processing Perform RAM didault processing of FRAM's CHK_DATA area Perform RAM didault processing Perform RAM didault start processing Perform RAM main loop default processing Perform RAM main loop default processing Perform Default processing of RAM data for station ID data Perform default processing of RAM data for user ID data Perform default processing of FRAM data for perform default processing of ID, DATA area of RAM Perform default processing of ID, DATA area of RAM Perform logger default processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Turnon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Turnof try Aown numerical value setting. 1. Include increment / decrement of numerical value in item number. 1. Returns the default secution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted, return off. 2. If the default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. c. 1. Insert FRAM data initialization into default request flag. 1. Perform default processing of FRAM data for data, default phase. 1. Perform default processing of FRAM data for data, default phase. 1. Perform default processing of FRAM data for station ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for main body data. 1. Default processing of FRAM data for main body data. 1. Create character data corresponding to default abnormal end. 1. Create character data corresponding to default abnormal end. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 2. Regger is do defaulted, make the result running. 3. Regger is do defaulted, make the result running. 4. Default processing of FRAM, ST, ID data. 2. Default processing of FRAM, ST, ID data. 3. Regger is defaulted, make the result running. 4. In the state where FLASH can be written, execute the following processing	
req[6-6-3-2] req[6-5-3-4] req[6-6-3-4] req[6-6-1-2] req[6-6-1-4] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-6] req[6-6-1-7] req[6-6-1-10] req[6-6-1-10] req[6-6-1-10] req[6-6-1-12] req[6-6-1-12] req[6-6-1-14] req[6-6-1-14]	User ID setting display processing User ID setting and processing User ID setting start processing User ID setting display item selection processing User ID setting display item selection processing FRAM default success confirmation processing FRAM default successing of FRAM's CHK_DATA area FRAM default processing f FRAM default for user ID data Address setting processing of FRAM default processing Default processing of FRAM default Default processing Logger default	Perform User ID setting display processing Perform User ID setting and processing Perform User ID setting start processing Perform User ID setting display item selection processing Perform RAM default success confirmation processing Perform RAM default success confirmation processing Perform RAM default processing of FRAM's CHK_DATA area Perform RAM default processing Perform RAM default start processing Perform RAM data processing of RAM data for station ID data Perform BAM default processing of RAM data for user ID data Perform default processing of FRAM data for user ID data Perform default processing of FRAM data for gas data Display default confirmation processing Display default confirmation processing Display default abnormal end processing Perform default processing of ID part area of RAM Perform default processing of ID DATA area of RAM Perform default processing of ID DATA area of RAM Perform logger default processing	2. Flash character data. 1. Place the item number in the selection position of the user ID. 2. Tumon FRAM write start flag. 1. Insert selection position of user ID in item number. 2. Tumon FRAM write start flag. 1. Include increment of user ID in item number. 1. Include increment of user ID in item number. 1. Include increment of user ID in item number. 1. Returns the default execution result. 1. If the default request flag is not defaulted, return off. 2. If the default request flag is not defaulted number. 1. Default processing of FRAM data for gas_calc. c. 2. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, defector. c. 1. Default processing of FRAM data for data, of default phase. 1. Perform default processing of FRAM data for user ID data. 1. Perform default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for user ID data. 1. Default processing of FRAM data for gas data. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default confirmation. 1. Create character data corresponding to default normal end. 1. Create character data corresponding to default normal end. 2. Create character data corresponding to default normal end. 3. Return results. 1. Default processing of FRAM, ST_ID data. 2. Default processing of FRAM, ST_ID data. 2. Default processing of FRAM, ST_ID data. 3. Return results. 3. Return results. 1. In Logger is defaulted, make the result is ended. 3. Return results. 1. In Lidia and the processing data defauss. 5. Set FALSH status of logger data. 2. Requ	

	1	T			
req[6-7-1-2]	DISP setting display ON/OFF setting end processing	Perform DISP setting display ON/OFF setting end processing		Insert item number into DISP mode setting item ON/OFF setting. Turnon FRAM write start flag.	
req[6-7-1-3]	DISP setting display ON/OFF setting start processing	Perform DISP setting display ON/OFF setting start processing		Insert DISP mode setting item ON/OFF setting into item number.	
req[6-7-1-4]	DISP setting display ON/OFF setting	Perform DISP setting display ON/OFF setting display		Accept the numerical value of 1. 1 or 0 and put the ON/OFF swapping process in	
-	display item selection processing Password numerical value change	item selection processing Perform password numeric value change processing		the item number 1. Input password increment / decrement processing.	
req[6-8-1-1]	processing				
req[6-8-1-2]	Password increase/decrease change processing	Perform password increase / decrease change processing		If password increase / decrease is ON, turn password increase / decrease OFF. If password increase / decrease is OFF, turn on password increase / decrease.	
req[6-8-1-3]	Password input end judgment	Perform password input end judgment		If the password digit being entered matches the password input end digit number, the result is ended.	
.04[0-0-1-3]	lenut comuc.	Perform accessing the control of		2. Return results.	
req[6-8-1-4]	Input password	Perform processing when password input is necessary		 In a mode requiring a password, when entering the correct password, the mode is entered. 	
reulo-o-1-4]				When an incorrect password is input, an error screen is displayed. Return the password result.	
req[6-8-1-5]	Password error display processing	Perform display processing at the time of password		Create character data corresponding to password error.	
	Acquisition processing of password	Perform password type acquisition processing		Return password type.	
req[6-8-1-6]	type	Confirm existence of password reset		Return a password return.	
req[6-8-1-7]	Confirm existence of password reset Password input screen	Perform password input screen		Create character data corresponding to the screen you are entering the password.	
req[6-8-1-8]				Set character data.	
	Password input deend processing	Perform password input deend processing		 If the password digit being entered is larger than the password input return digit number, lower the digit of the input password. 	
req[6-8-1-9]	processing			If the password digit being entered is smaller than the password input end digit,	
	Initial password processing	Perform password initial processing		increase the digit of the password being entered. 1. Initialize each digit of the password.	
req[6-8-1-10]					
	User password ON/OFF setting	Perform user password ON/OFF setting confirmation		Return item number.	
req[6-8-2-1]	confirmation processing	processing			
req[6-8-2-2]	User password value setting digit down processing	Perform user password value setting digit down processing		If the item number is 0, turn on the result. If the item number is other than 0, count down the item number and turn off the result.	
	User password value setting digit			Return results. If the item number is 3, turn on the result.	
req[6-8-2-3]	User password value setting digit up processing	Perform user password value setting digit up processing		2. If the item number is other than 3, count up the item number and turn off the result.	
soule 2.2 ···	User password ON/OFF setting	Perform user password ON/OFF setting display		 Return results. Create ON/OFF setting menu display corresponding to USER password ON/OFF setting. 	
req[6-8-2-4]	display processing	processing			
req[6-8-2-5]	User password value setting display processing	Perform user password value setting display processing		Create character data corresponding to USER password value setting. Create character data.	
reals a a co	User password ON/OFF setting	Perform user password ON/OFF setting end		Insert item number into user password ON/OFF setting.	
req[6-8-2-6]	end processing User password value setting end	processing Perform user password value setting end		Turnon FRAM write start flag. Set user password number.	
req[6-8-2-7]	processing	processing			
req[6-8-2-8]	User password ON/OFF setting start processing	Perform user password ON/OFF setting start processing	·	Put the user password ON/OFF setting in the item number.	
roofe a a a	User password value setting start processing	Perform user password value setting start processing		I. Initialize item number. Set the number of digits of the password.	
req[6-8-2-9]		1		Set the number of digits of the password. Turnoff up / down numerical value setting.	
req[6-8-2-10]	User password ON/OFF setting selection processing	Perform user password ON/OFF setting selection processing		 Accept the numerical value of 1. 1 or 0 and put the ON/OFF swapping process in the item number. 	
req[6-8-2-11]	User password value setting	Perform user password value setting display selection processing		Insert numerical increase / decrease processing into editing variables.	
	selection processing Acquisition of user password	Acquire ON/OFF setting of maintenance password		USER Password ON/OFF setting is returned.	
req[6-8-2-12]	ON/OFF setting Acquisition of maintenance	Acquire maintenance password ON/OFF setting		Returns ON/OFF setting of MAINTE password.	
req[6-8-3-1]	passwordON/OFF setting				
req[6-8-4-1]	Maintenance password value setting digit down processing	Perform maintenance password value setting digit down processing		If the item number is 0, turn on the result. If the item number is other than 0, count down the item number and turn off the result.	
<u> </u>	Maintenance password value setting	Perform maintenance password value setting		Return results. If the item number is 3, turn on the result.	
req[6-8-4-2]	digit up processing	digit up processing		2. If the item number is 3, turn on the result. 2. If the item number is other than 3, count up the item number and turn off the result. 3. Return results.	
rea[6-9-4-21	Maintenance password ON/OFF	Perform maintenance password ON/OFF setting		MAINTE Create ON/OFF setting menu display corresponding to password ON/OFF	
req[6-8-4-3]	setting display processing Maintenance password value setting	display processing Perform maintenance password value setting		setting. 1. MAINTE Create character data corresponding to password value setting.	
req[6-8-4-4]	display processing	display processing		Change the numerical value corresponding to MAINTE password value setting to character (SHORT) data.	
req[6-8-4-5]	Maintenance password ON/OFF setting end processing	Perform maintenance password ON/OFF setting end processing		Insert item number into Maintenance password ON/OFF setting. Turnon FRAM write start flag.	
req[6-8-4-6]	Maintenance password value setting end processing	Perform maintenance password value setting end processing		Set the 4-digit maintenance password number.	
req[6-8-4-7]	Maintenance password ON/OFF	Perform maintenance password ON/OFF setting		Put the maintenance password ON/OFF setting in the item number.	
	setting start processing Maintenance password value setting	start processing Perform maintenance password value setting start		Initialize item number.	
req[6-8-4-8]	start processing	processing		Set the 4-digit maintenance password number. Turnoff up / down numerical value setting.	
req[6-8-4-9]	Maintenance password ON/OFF	Perform maintenance password ON/OFF setting		Put ON/OFF replacement processing in item number.	
	setting selection processing Maintenance password value setting	selection processing Perform maintenance password value setting		MAINTE Include increase / decrease process of numerical value corresponding to	
req[6-8-4-10]	selection processing Acquisition of password protection	display selection processing Acquire password protection ON/OFF setting		password value setting in editing variable. 1. Return ON/OFF setting of password protection.	
req[6-9-1-1]	ON/OFF setting				
male to : :	FRAM factory default update execution processing	Perform FRAM factory default update execution processing	·	Substitute FRAM setting data size. Substitute the program number.	
req[6-10-1-1]				3. Copy the program number. 4. Check SUM Update.	
req[6-10-1-2]	FRAM factory default update processing	Perform FRAM factory default update processing		When ROM and FRAM are normal, update FRAM to factory default state.	
	Factory setting storing in progress	Perform factory setting storing in progress display		If FRAM can not be factory-set, turn on FRAM error flag. Creates character data corresponding to the factory setting recording.	
req[6-10-1-3]	display processing Factory setting storage display	processing Perform factory setting storage display 1 processing		Creates character data corresponding to factory setting record display 1.	
req[6-10-1-4]	1 processing				
req[6-10-1-5]	Factory setting storage display	Perform factory setting storage display 2 processing		Creates character data corresponding to factory setting record display 2.	
	2 processing				
req[6-10-1-6]	2 processing Factory setting storing processing	Perform factory setting storing processing		Set FRAM to factory condition. Reset Alarm point	
req[6-10-1-6]	2 processing Factory setting storing processing FRAM factory shipped data LOAD	Perform FRAM factory shipped data LOAD		Reset alarm point. FRAM Load factory data 2 faces.	
	2 processing Factory setting storing processing			Reset alarm point. FRAM Load factory data 2 faces. Match write process. Compare which side is the latest.	
req[6-10-1-6]	2 processing Factory setting storing processing FRAM factory shipped data LOAD	Perform FRAM factory shipped data LOAD		Reset alarm point. FRAM Load factory data 2 faces. Match write process.	
	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing	Perform FRAM factory shipped data LOAD processing		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result.	
req[6-10-2-1]	2 processing Factory setting storing processing FRAM factory shipped data LOAD	Perform FRAM factory shipped data LOAD		2. Reset alarm point. 1. FRAM Load Fatory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides.	
	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data	Perform FRAM factory shipped data LOAD processing		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result.	
req[6-10-2-1]	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM		2. Reset alarm point. 1. FRAM Load Factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM.	
req[6-10-2-1]	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM		2. Reset alarm point. 1. FRAM Load Fatory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM.	
req[6-10-2-1]	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM.	
req[6-10-2-1]	2 processing Fractory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm resulting of FRAM factory shipment data.	
req[6-10-2-1] req[6-10-2-2] req[6-10-2-3]	2 processing Fractory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm resulting of FRAM factory shipment data.	
req[6-10-2-1]	2 processing Fractory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm resulting of FRAM factory shipment data.	
req[6-10-2-1] req[6-10-2-2] req[6-10-2-3]	2 processing Fractory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm resulting of FRAM factory shipment data.	
req[6-10-2-1] req[6-10-2-2] req[6-10-2-3]	2 processing Fractory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm resulting of FRAM factory shipment data.	
req[6-10-2-1] req[6-10-2-2] req[6-10-2-3] req[6-10-2-4]	2 processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the did side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag.	
req[6-10-2-1] req[6-10-2-2] req[6-10-2-3]	2 processing FRAM factory shipped data LOAD processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Confirm reading of factory default data (alarm point) of FRAM Confirm reading of factory default data (alarm point) of FRAM	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM Perform factory default restore display processing		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the did side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag. 1. Cordim reseting of FRAM factory shipment data. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag.	
req[6-10-2-1] req[6-10-2-2] req[6-10-2-3] req[6-10-2-4]	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM Factory default settings of FRAM Factory default restore display	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the did side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag.	
rea[6-10-2-1] rea[6-10-2-2] rea[6-10-2-3] rea[6-10-2-4] rea[6-10-2-6]	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM Factory default settings of FRAM Factory default settings of FRAM Factory default settings of FRAM Factory default setting restore display processing Factory default setting restore display 1 processing Factory default setting restore display 1 processing	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM Perform factory default restore display processing Perform factory default setting restore display 1 processing		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the did side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag. 1. Cordim reseting of FRAM factory shipment data. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag.	
req[6-10-2-1] req[6-10-2-2] req[6-10-2-3] req[6-10-2-4] req[6-10-2-5] req[6-10-2-5] req[6-10-2-5]	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM Factory default settings of FRAM Factory default setting restore display processing Factory default setting restore display 1 processing Factory default setting restore display 2 processing Factory default setting restore	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default entings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM Perform factory default restore display processing Perform factory default setting restore display processing Perform factory default setting restore display 1 processing		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Read factory default data of FRAM. 1. Retirieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm reading of FRAM factory shipment data. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag. 1. Create character data corresponding to factory reset. 1. Creates character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory default setting return display 2. 1. Read FRAM setting at factory shipment.	
rea[6-10-2-1] rea[6-10-2-2] rea[6-10-2-3] rea[6-10-2-4] rea[6-10-2-6] rea[6-10-2-7] rea[6-10-2-8]	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM Factory default restore display processing Factory default setting restore display 1 processing Factory default setting restore display 2 processing	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM Perform factory default restore display processing Perform factory default setting restore display 1 processing Perform factory default setting restore display 2 processing Perform factory default setting restore display 2 processing Perform factory default setting restored display 2 processing Perform factory default setting restored display 2 processing		2. Reset alarm point. 1. FRAM Load Factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. If you do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retirieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm reading of FRAM factory shipment data. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag. 1. Create character data corresponding to factory reset. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory default setting return display 2. 1. Read FRAM setting at factory shipment. 2. Record alarm point for resetting.	
req[6-10-2-1] req[6-10-2-2] req[6-10-2-3] req[6-10-2-4] req[6-10-2-6] req[6-10-2-7] req[6-10-2-8] req[6-10-2-8]	2 processing Fractory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM Factory default settings of FRAM Factory default settings of FRAM Factory default setting restore display processing Factory default setting restore display 1 processing Factory default setting restore display 2 processing Factory default setting restore display 2 processing Factory default setting restore processing Factory default setting restore processing Factory default setting restore processing Power ON hold processing	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM Perform factory default restore display processing of factory default data (alarm point) of FRAM Perform factory default setting restore display 1 processing Perform factory default setting restore display 1 processing Perform factory default setting restore display 2 processing Perform factory default setting restored display 1 processing Perform factory default setting restored display 1 processing Perform factory default setting restoration processing Perform power ON hold processing		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. Hyou do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm reseting of FRAM factory shipment data. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag. 1. Create character data corresponding to factory reset. 1. Creates character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 2. 1. Read FRAM setting at factory shipment. 2. Record alarm part for resetting. 3. Turnon FRAM write start flag. 1. Maintain power ON state.	
rea[6-10-2-1] rea[6-10-2-2] rea[6-10-2-3] rea[6-10-2-4] rea[6-10-2-6] rea[6-10-2-7] rea[6-10-2-8]	2 processing Fractory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM Factory default settings of FRAM Factory default settings of FRAM Factory default setting restore display processing Factory default setting restore display 2 processing Factory default setting restore display 2 processing Factory default setting restore display 2 processing Factory default setting restore processing Factory default setting restore display 2 processing Factory default setting restore processing Power OFN hold processing Acquisition of battery low voltage power OFF fair	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM Perform factory default restore display processing of factory default data (alarm point) of FRAM Perform factory default setting restore display 1 processing Perform factory default setting restore display 2 processing Perform factory default setting restored display 2 processing Perform factory default setting restored display 2 processing Perform factory default setting restoration processing Perform power ON hold processing Acquire battery low voltage power OFF flag		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the did side. 5. Hyou do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm reseting of FRAM factory shipment data. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag. 1. Create character data corresponding to factory reset. 1. Creates character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 2. 1. Read FRAM setting at factory shipment. 2. Record alarm point for resetting. 3. Turnon FRAM write start flag. 1. Ministinia power ON state. 1. Returns the power OFF flag of battery low voltage.	
rea[6-10-2-1] rea[6-10-2-2] rea[6-10-2-3] rea[6-10-2-4] rea[6-10-2-6] rea[6-10-2-7] rea[6-10-2-8] rea[6-10-2-8]	2 processing Factory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Eactory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM Factory default settings of FRAM Factory default settings of FRAM Factory default setting restore display processing Factory default setting restore display 1 processing Factory default setting restore display 2 processing Factory default setting restore processing Power ON hold processing Power ON hold processing Acquisition of battery low voltage	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM Perform factory default restore display processing of factory default data (alarm point) of FRAM Perform factory default setting restore display 1 processing Perform factory default setting restore display 1 processing Perform factory default setting restore display 2 processing Perform factory default setting restored display 1 processing Perform factory default setting restored display 1 processing Perform factory default setting restoration processing Perform power ON hold processing		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the old side. 5. Hyou do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm reseting of FRAM factory shipment data. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag. 1. Create character data corresponding to factory reset. 1. Creates character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 2. 1. Read FRAM setting at factory shipment. 2. Record alarm part for resetting. 3. Turnon FRAM write start flag. 1. Maintain power ON state.	
rea[6-10-2-1] rea[6-10-2-2] rea[6-10-2-3] rea[6-10-2-4] rea[6-10-2-6] rea[6-10-2-6] rea[6-10-2-7] rea[6-10-2-8] rea[6-10-2-8]	2 processing Fractory setting storing processing FRAM factory shipped data LOAD processing Read factory default data (alarm point) of FRAM Factory default settings of FRAM Confirm reading of factory default data (alarm point) of FRAM Factory default settings of FRAM Factory default settings of FRAM Factory default settings of FRAM Factory default setting restore display processing Factory default setting restore display 2 processing Factory default setting restore display 2 processing Factory default setting restore processing Factory default setting restore processing Factory default setting restore display 2 processing Factory default setting restore processing Power OFN hold processing Acquisition of battery low voltage power OFF fair	Perform FRAM factory shipped data LOAD processing Read factory default data of FRAM Load factory default settings of FRAM Perform reading confirmation processing of factory default data (alarm point) of FRAM Perform factory default restore display processing of factory default data (alarm point) of FRAM Perform factory default setting restore display 1 processing Perform factory default setting restore display 2 processing Perform factory default setting restored display 2 processing Perform factory default setting restored display 2 processing Perform factory default setting restoration processing Perform power ON hold processing Acquire battery low voltage power OFF flag		2. Reset alarm point. 1. FRAM Load factory data 2 faces. 2. Match write process. 3. Compare which side is the latest. 4. Write on the did side. 5. Hyou do not know which side is the latest, write on both sides. 6. Returns the judgment result. 1. Read factory default data of FRAM. 1. Retrieve backup of current setting. 2. FRAM Load factory default settings. 1. Confirm reseting of FRAM factory shipment data. 2. If the gas setting is changed, turn off the alarm reset ON/OFF setting flag. 1. Create character data corresponding to factory reset. 1. Creates character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 1. 1. Create character data corresponding to factory setting backward display 2. 1. Read FRAM setting at factory shipment. 2. Record alarm point for resetting. 3. Turnon FRAM write start flag. 1. Ministinia power ON state. 1. Returns the power OFF flag of battery low voltage.	

req[6-11-2-4]	Processing display initialization processing	Processing display initialization processing	Set the pump stop flag to false. Set the purging flag to false.	
	Create TURNOFF display	Perform display creation processing at TURNOFF	Set the ourge count timer to 0. Clear LCD display data.	-
req[6-11-2-5]			Set the display type to turn off. Show turn off.	
req[6-11-2-6]	Pump purge display processing	Pump purge display processing	Set the display type to purge. Show purge and remaining purge time.	
req[6-11-2-7] req[6-11-2-8]	Purging flag setting process Purging flag acquisition process	Purging flag setting process Purging flag acquisition process	Assign the request flag to the purging flag. Return purging flag.	
req[6-11-2-9] req[6-11-2-10]	Purge count timer setting process Purge time end confirmation process	Purge count timer setting process Purge time end confirmation process	Assign the maximum purge time (30 seconds) to the purge count timer. Returns false if the purge count timer is non-zero, and true if it is zero.	
req[6-11-2-11]	10msec interrupt processing for processing display	10msec interrupt processing for processing display	Decrement the purge count timer if it is non-zero.	
req[6-11-2-12]	PowerOff display ON/OFF forced off flag acquisition processing	Acquire forced OFF flag of PowerOff display ON/OFF	Turnoff Return display forced OFF flag.	
	Process of acquiring flag of PowerOff display ON/OFF	Acquire the flag of PowerOff display ON/OFF	When the turn off display flag is ON and the turn off display forced OFF flag is ON, the result is turned off.	
req[6-11-2-13]			When the turn off display flag is ON and the turn off display forced OFF flag is OFF, the result is turned on.	
			When the turn off indication flag is OFF, the result is turned off. Return results.	
	Judgment processing of PowerOff display	Perform PowerOff display judgment processing	When the key event is other than the power key, execute the following processing 2 to 3. Initialize the confirmation count of turn off indication.	
req[6-11-2-14]			Turnoff indicator flag. When the key event is the power key and the confirmation count of the turn off indication	
	Process of acquiring PowerOff	Acquire PowerOff display flag	is larger than 3, the turn off indication flag is turned on. 1. Return turn off indication flag.	
req[6-11-2-15]	display flag Key activation long press time	Perform key activation long press time reset	I. Initialize key press time.	
req[6-11-2-16]	reset processing	processing		
req[6-11-2-17]	Forced OFF flag setting processing of PowerOff display ON/OFF	Perform forced OFF flag setting processing of PowerOff display ON/OFF	When the ON/OFF setting flag is OFF, turn off the turn off display forced OFF flag. When the ON/OFF setting flag is ON, turn on the turn off display forced OFF flag.	
	Power OFF processing	Perform power OFF processing	When USB status confirmation processing is OFF, the FRAM writing start flag is OFF or	
			the forced power OFF OFF execution flag is ON, execute the following processing 2 to 4. 2. Stop SPI of dedicated function. 3. Stop IIC of SCI6.	
req[6-11-2-18]			4. Stop InC of Sci9. 5. Stop interrupt.	
			6. Stop the MCU power supply voltage monitoring function 7. When the FirmUpdate flag is ON, USB communication function is stopped.	
req[6-11-2-19]	ON processing of the power OFF flag	turn on the power OFF flag	Turnon the power OFF execution flag.	
req[6-11-2-20]	ON processing of the power OFF flag Acquisition processing of the power		Turnon the forced power OFF execution flag. Return the power OFF flag.	
req[6-11-2-21]	OFF flag Communication processing	Perform acquisition processing or the power OFF hag Perform communication processing initialization	1. Assign initial values to the receive buffer. 1. Assign initial values to the receive buffer.	
	initialization processing	processing	Assign initial values to the fransmit buffer. Assign the initial value to the receive data counter.	
req[7-1-1-1]			Assign an initial value to the end character save buffer. Assign the initial value to the receive completion flag.	
			Assign initial values to the communication operation flags. Initialize the UART5 driver.	
req[7-1-1-2]	Communication processing device	Perform communication processing device startup	Start the UART5 driver.	\dashv
req[7-1-1-3]	startup processing Communication processing device stop processing	processing Perform communication processing device stop processing	Set the communication operation flag to ON. Stop the UARTS driver. Set the communication operation flag to OFF.	\neg
	Communication reception data analysis Transmission data creation	processing Perform communication reception data analysis Transmission data creation processing	Set the communication operation hag to U+F. When the communication operation flag is ON and the reception completion flag is ON, the following processing is performed.	
	processing	Transmission data dealion processing	2. Check the SUM value of the received data. 3. Copy the command part of the received buffer to the transmit buffer.	
req[7-1-1-4]			4. Execute command processing and get the number of transmitted data. 5. Send the data in the send buffer.	
			6. Set the initial value to the received data counter. 7. Set the reception completion flag to OFF.	
	Communication reception data	Perform communication reception data acquisition	If the communication operation flag is ON, perform the following processing.	
req[7-1-1-5]	acquisition processing	processing	Store the received data in the receive buffer and increment the received data counter. He received data counter is greater than the maximum counter value, clip to the	
			maximum counter value. 4. If the received data is the end character, set the received data to the end character save	
req[7-1-1-6]	Communication reception error	Perform communication reception error processing	buffer and set the reception completion flag to ON. 1. Assign initial values to the receive buffer.	\dashv
/oq[/-1-1-0]	processing Received data SUM value	Perform received data SUM value confirmation	Assign the initial value to the received data counter. Initialize the command top flag.	_
	confirmation processing	processing	Initialize the SUM buffer. Start SUM calculation when the received data is STX, and end SUM calculation when	
req[7-1-1-7]			the received data is ETX. 4. If the calculated SUM value and the received SUM value match, assign normal to the	
			result flag, and if they do not match, assign abnormal to the result flag. 5. Return the result flag.	
	USB communication partner confirmation process	Perform USB communication partner confirmation process	If the USB connection confirmation port is ON, set the result flag to indicate that there is a communication partner, and if it is OFF, set the result flag to indicate that there is no	
req[7-1-1-8]	continuation process	process	communication partner, and in its OFF, set the result hag to indicate that there is no communication partner. 2. Return the result flacs.	
	USB communication mode no-partner	Perform USB communication mode no-partner	Decrement if the no communication partner counter is non-zero.	_
see[7.4.4.0]	warning processing	warning processing	If the USB connection confirmation port is ON, set the maximum value (3 minutes) to the no communication partner counter.	
req[7-1-1-9]			If the no-communication partner counter is 0, request the alarm of the failure buzzer, and if it is not 0, request the stop of the failure buzzer.	
req[7-1-1-10]	Communication device start/stop	Perform communication device start/stop status	Return the communication operation flag.	_
req[/-1-1-10]	status acquisition process Communication device transmission	acquisition process Perform communication device transmission status	Get UART5 transmission status.	_
req[7-1-1-11]	status acquisition processing	acquisition processing	If the UART5 transmit state is non-zero, assign true to the result flags, otherwise assign false to the result flags.	
	Communication transmission data	Perform communication transmission data setting	Return result flags. 1. Assign the transmit data end character to the transmit buffer.	
	setting processing	processing	Obtain the data size to calculate the SUM value and calculate the SUM value. Convert the SUM value to 2-byte ASCII.	
req[7-1-1-12]			A. Assign the SUM value to the specified position in the transmit buffer. Assign a terminator to the specified position in the send buffer.	
			6. Calculate the transmission data size. 7. Send send data.	
	SUM calculation process	Perform SUM calculation process	Initialize the SUM value storage buffer.	\dashv
req[7-1-1-13]			Calculate the SUM value by accumulating the buffer data to be calculated. Return the SUM value.	
req[7-1-1-14]	Communication command judgment processing	Perform command deend processing of communication	Obtain command table. If the SUM check is normal, the command table is looped to the end.	
	SUM calculation processing for	Perform SUM calculation processing for transmission	Returns the command judgment result. Add received data by received data size.	_
req[7-1-1-15]	transmission of communication	of communication	Calculate the difference between received data added with 0x00U. Return the value obtained by 2.	
req[7-1-1-16]	end processing of response frame of communication	Terminate the response frame of communication	1. Acquire data end. 2. Get SUM value.	\neg
104[1-1-10]	SUM calculation processing of	Perform SUM calculation of received data of	Ges Outwington Get curve for the control of the received data. 1. Calculate the SUM value of the received data.	
req[7-1-1-17]	received data of communication	Perform SUM calculation of received data of communication	1. Cascado tilo Com value or tilo teceived iddid.	
	Communication command:	Perform communication command processing	Get the gas number with the W command, execute the following processing 2 to 4, then tracemit if:	\dashv
	Gas information	for gas information	then transmit it. 2. Processing for setting gas data of nonvolatile memory. 3. Gas data setting processing of concentration calculation data.	
18			Sea bata setting processing or concentration carculation data. RLP3 communication setting reconfiguration processing. With the R command, character data corresponding to the gas information is created.	
			Returns the end of the response frame.	
	Communication command:	Perform communication command processing	With the R command, character data creation processing and concentration data on	\dashv
req[7-1-1-19]	Gas table information	for gas table information	gas table information are converted to ASCII. 2. Returns the end of the response frame.	
req[7-1-1-20]	Communication command: Flammable reading setting	Perform communication command processing for flammable reading setting	W command sets NC sensor reading gas data and transmits it. Convert HEX data to ASCII data with R command.	
<u> </u>		Perform communication command processing	Returns the end of the response frame. 1. Convert concentration data to ASCII with W command.	_
21	each alarm function gas type	for alarm point setting	In the reading process, when each alarm is OFF, character data corresponding to each alarm is created.	
21			In the reading process, when each alarm is ON, convert the concentration data to ASCII. Returns the end of the response frame.	
	Communication command:	Perform communication command processing	W command to write the lower limit value and upper limit value of the alarm point.	\dashv
req[7-1-1-22]	Alarm point setting range	for the alarm point settable range	Using the R command, read the lower limit and upper limit of the alarm point. Returns the end of the response frame.	
	Communication command: STEL setting range	Perform communication command processing for the STEL settable range	W command writes the lower limit value and upper limit value of the STEL alarm. Read the lower limit value and the upper limit value of the STEL alarm with	٦
req[7-1-1-23]			the R command. 3. Returns the end of the response frame.	
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req[7-1-1-24]	Communication command: TWA settable range	Perform communication command processing for the TWA settable range	Wommand to write the lower limit value and upper limit value of TWA alarm. Read the lower limit and upper limit of TWA alarm with R command. Returns the end of the response frame.	
req[7-1-1-25]	Communication command: CAL concentration	Perform communication command processing for CAL concentration	Acquire calibration concentration with W command. In the R command, change the numeric value to character data.	
	Communication command: CAL concentration setting possible	Perform communication command processing for the CAL concentration setting possible range	Returns the end of the response frame. Woommand writes the lower limit value and the upper limit value of the calibration concentration.	
req[7-1-1-26]	range	to the one constitution setting possible range	Read the lower limit value and upper limit value of the calibration concentration with the R command. Returns the end of the response frame.	
req[7-1-1-27]	Communication command: CAL group	Perform communication command processing for the CAL group	Acquire proof group with W command. In the R command, change the numeric value to character data. Returns the end of the response frame.	
req[7-1-1-28]	Communication command: Final calibration history	Perform communication command processing on final calibration history	Execute the following processes 2 to 4 with the R command. Change numeric value to character data. Acquire concentration before final calibration.	
1eq[/-1-1-20]	Communication command:	Perform communication command expecsaring	Acquire concentration after final calibration. Returns the end of the response frame.	
req[7-1-1-29]	Final calibration history SDM serial Communication command:	Perform communication command processing for the final calibration history SDM serial Perform communication command processing	With the R command, character data corresponding to the final calibration history SDM serial is created. Returns the end of the response frame. Execute the following processes 2 to 4 with the R command.	
req[7-1-1-30]	Final BUMP history	for the final BUMP history	Change numeric value to character data. Change numeric value to character data. Acquire concentration at final bump test. Acquire final standard value concentration.	
req[7-1-1-31]	Communication command: Final BUMP history SDM serial	Perform communication command processing for the final BUMP history SDM serial	Returns the end of the response frame. With the R command, character data corresponding to the final BUMP history SDM serial is created.	
req[7-1-1-31]	Communication command: Maintenance announcement date	Perform communication command processing for maintenance announcement date and time	2. Returns the end of the response frame. 1. Write the maintenance announcement date and time with W command. 2. Read the maintenance announcement date and time with the R command.	
leq[/-1-1-32]	and time Communication command:	Perform communication command processing	Returns the end of the response frame. If AIR calibration is not executed with W command, execute AIR school.	
req[7-1-1-33]	AIR calibration processing	for AIR calibration processing	2. In the R command, the span coefficient, the temperature value of the combustible sensor and the temperature value of the oxygen sensor are acquired. 3. When the following conditions 4 to 6 are satisfied with the C command, it is regarded as a zero calibration error. 4. AIR calibration is not executed. 5. Gas setting is valid. 6. Zero calibration is aborned. 7. Returns the end of the response frame.	
	Communication command: Auto calibration processing	Perform communication command processing for AUTO calibration processing	If AUTO calibration is not executed with the W command, execute the following processing 2 to 4. Acquire the SDM serial number.	
			S. Set the calibration concentration. Perform AUTO calibration. Using the R command, obtain the serial number that was used correctly and	
req[7-1-1-34]			the temperature value of the inflammable sensor. 6. When the following conditions 4 to 6 are satisfied with the C command, it is regarded as a zero calibration error. 7. AUTO calibration is not executed.	
			7. A010 Gallohation is not executed. 8. Gas setting is valid. 9. Zero calibration is abnormal. 10. Returns the end of the response frame.	
req[7-1-1-35]	Communication command: Sensor · battery replacement date and time	Perform communication command processing for Sensor · battery replacement date and time	10. Neutris the end or the response frame. 1. Write sensor replacement date and time and battery replacement date and time with W command. 2. Read sensor replacement date and time and battery replacement date and time	
req() 1 1 doj	Communication command:	Perform communication command processing	with R command. 3. Returns the end of the response frame. 1. W command to write the main serial number.	
req[7-1-1-36]	Main serial number Communication command:	on main serial number Perform communication command processing	Read main serial number with R command. Returns the end of the response farme. Write the provisional main serial number with W command.	
req[7-1-1-37]	Main temporary serial number Communication command:	for main temporary serial number Perform communication command processing	Using the R command, read the temporary serial number of the main MCU. Returns the end of the response frame. Women and the response frame.	
req[7-1-1-38]	User ID	for user ID	Execute the following processing 3 to 4 with the R command. Let NULL character be a space. Read user ID.	
	Communication command: Station ID	Perform communication command processing for station ID	5. Returns the end of the response frame. 1. W command to write the station ID. 2. Execute the following processing 3 to 4 with the R command.	
req[7-1-1-39]			Let NULL character be a space. Read station ID. S. Returns the end of the response frame.	
req[7-1-1-40]	Communication command: SPE No	Perform communication command processing for SPE No	Write SPE No with W command. Read SPE No with R command. Returns the end of the response frame.	
req[7-1-1-41]	Communication command: Destination setting	Perform communication command processing for destination setting	Write the destination setting with W command. Read the destination setting with the R command. Returns the end of the response farame.	
req[7-1-1-42]	Communication command: Backlight lighting time	Perform communication command processing for backlight lighting time	Set the backlight lighting time with the W command. Read the set backlight lighting time with the R command. Returns the end of the response frame.	
req[7-1-1-43]	Communication command: Suppress setting	Perform communication command processing for suppression setting	With W command, set display of suppression ON/OFF and suppression ON/OFF. With the R command, ON/OFF of set suppression and ON/OFF display of suppression are read.	
	Communication command: Zero tracking setting	Perform communication command processing for zero tracking setting	Returns the end of the response frame. Set ON/OFF of zero tracking and ON/OFF of zero tracking by W command. With the R command, ON/OFF of the set zero tracking and ON/OFF of	
req[7-1-1-44]	Communication command:	Perform communication command processing	the zero tracking are read. 3. Returns the end of the response frame. 1. Set ON/OFF of long-life mode with W command.	
req[7-1-1-45]	Long life ON/OFF Long life function display ON/OFF	for long life ON/OFF setting Perform setting processing of the long life	Read the set long-life mode with the R command. Returns the end of the response frame. Set the long life function display ON/OFF with W command.	
req[7-1-1-46]	processing Communication command:	function display ON/OFF function Perform communication command processing	Convert ON / OFF of the set long life function display to '0', '1' with R command. Returns the end of the response frame. Execute the following processing 2 – with the W command.	
req[7-1-1-47]	Flammable LEL Numerical value	for flammable LEL value	Set LEL value for flammable LEL numerical value. Set LEL value for flammable gas data. Read the set flammable LEL value with the R command.	
req[7-1-1-48]	Communication command: Flammable sensor mode	Perform communication command processing for flammable sensor mode confirmation	Returns the end of the response frame. Read the flammable sensor mode with the R command. Returns the end of the response frame.	
req[7-1-1-49]	confirmation Communication command: Margin value display ON/OFF	Communication command processing is performed on the margin value display ON/OFF setting	Set ON/OFF of margin value display by W command. By using the R command, the displayed margin value display is read.	
req[7-1-1-50]	Communication command: Alarm operation	Perform communication command processing for alarm operation setting	Returns the end of the response frame. Set alarm action with W command. Read set alarm action with R command.	
req[7-1-1-51]	Communication command: Integration alarm ON/OFF	Perform communication command processing for integration alarm ON/OFF setting	Returns the end of the response frame. Set ON/OFF of integrating alarm with W command. Read set integrated alarm with R command.	
req[7-1-1-52]	Communication command: Alarm function ON/OFF	Perform communication command processing for alarm function ON/OFF setting	Returns the end of the response frame. Set Warning function ON/OFF with W command. Read the set alarm function with the R command.	
req[7-1-1-53]	Communication command: Stealth setting	Perform communication command processing for stealth setting	Returns the end of the response frame. Set stealth function and stealth motor function with W command. Read the set stealth function and stealth motor function with the R command.	
	Communication command:	Perform communication command processing	Returns the end of the response frame. Use the W command to set the confirmation beep selection and the confirmation	
req[7-1-1-54]	Confirmation beep setting	for confirmation beep setting	beep time. 2. Convert the set confirmation beep selection to '0', '1', '2', '3' with the R command and read the confirmation beep time.	
req[7-1-1-55]	NCI history download process	Perform history downloaded processing to NCI active flag	Returns the end of the response frame. Use R command to set history down and set ACK. Returns the end of the response frame.	
req[7-1-1-56]	NCI history download function setting process	Set up the NCI history download function	Set the history download function ON/OFF with W command. Convert ON/OFF of the set history download function to '0' and '1' with R command. Setures the hard of the rest	
req[7-1-1-57]	NCI active flag acquisition processing	Perform setting processing of NCI active flag	Returns the end of the response frame. Set the value of NCI active flag with W command. Convert the set NCI active flag value to '0', '1', '2' with R command. Returns the cond of the scenario frame.	
req[7-1-1-58]	Communication command: Calibration expiration days	Performs communication command processing on the calibration expiration days	3. Returns the end of the response frame. 1. Use the W command to set the calibration expiration days. 2. Read the set calibration expiration date with the R command. 3. Returns the end of the response frame.	
req[7-1-1-59]	Communication command: Calibration expiration ON/OFF	Perform communication command processing for calibration due date ON/OFF setting	1. Use the W command to set the calibration expiration ON/OFF. 2. Read the set calibration expiration with the R command. 3. Returns the end of the response frame.	
req[7-1-1-60]	Communication command: Calibration expired operation	Perform communication command processing for calibration expiration operation	1. Use the W command to set the calibration expiration check method. 2. Convert the set calibration expiration checking method to '0', '1', '2' with the R command. 3. Returns the end of the response frame.	
req[7-1-1-61]	Communication command: BUMP expiration days	Perform communication command processing for BUMP expiration days	Set bump expiration days by W command. Read the set bump expiration days with the R command.	
	 	1	Returns the end of the response frame.	

req[7-1-1-62]	Communication command: BUMP time limit ON/OFF	Perform communication command processing for BUMP time limit ON/OFF setting	Set bump time limit ON/OFF with W command. Use the R command to read the set bump time limit.	
see[7.4.4.62]	Communication command: BUMP expired operation	Perform communication command processing for BUMP expired operation	Returns the end of the response frame. Set bump expiration operation with W command. Read the set bump expiration operation with the R command.	
req[7-1-1-63]	Communication command:	Perform communication command processing	Returns the end of the response frame. 1. Use the W command to set the following items 2 to 6.	
	Maintenance announcement setting	for maintenance announcement setting	Maintenance announcement display days. Maintenance announcement display ON/OFF setting.	
req[7-1-1-64]			Maintenance announcement Expired operation. Maintenance notice check gas.	
			Read the set items with the R command. Returns the end of the response frame.	
	Communication command: BUMP test condition setting	Perform communication command processing for BUMP test condition setting	Use the W command to set the following items 2 to 6. Bump time seconds.	
req[7-1-1-65]	-		Bump tolerance. Calibration time after bump fault seconds.	
			5. Calibration ON/OFF after bump fault. 6. Read the set items with the R command. 7. Returns the end of the response frame.	
req[7-1-1-66]	Communication command: ID display ON/OFF	Perform communication command processing for ID display ON/OFF setting	Set ON/OFF of ID display with W command. By using the R command, ON/OFF of the set ID display is converted to '0', '1'.	
	Communication command:	Perform communication command processing	Returns the end of the response frame. Use W command to set lunch break ON/OFF.	
req[7-1-1-67]	Lunch break ON/OFF Communication command:	for lunch break ON/OFF setting	 With the R command, ON/OFF of the set lunch break is converted to '0', '1'. Returns the end of the response frame. 	
req[7-1-1-68]	Key operation sound ON/OFF	Perform communication command processing for key operation sound ON/OFF setting	Set ON/OFF of key operation sound with W command. By using the R command, ON/OFF of the set key operation sound is converted to '0'. '1'.	
	Communication command:	Perform communication command processing	Returns the end of the response frame. Set ON/OFF of DISP setting item with W command.	
req[7-1-1-69]	DISP setting item ON/OFF	for DISP setting item ON/OFF	 With the R command, ON/OFF of the set DISP setting item is converted to '0', '1'. Returns the end of the response frame. 	
req[7-1-1-70]	Communication command: Auto zero ON/OFF	Perform communication command processing for auto zero ON/OFF	1. Use the W command to set the auto zero ON/OFF. 2. With the R command, turn ON/OFF of the set auto zero into '0', '1'. 3. Returns the end of the response frame.	
req[7-1-1-71]	Communication command: Demand zero ON/OFF	Perform communication command processing for demand zero ON/OFF	Set ON/OFF of demand zero with W command. Convert ON/OFF of set demand zero to '0', '1' with R command.	
	Communication command: Automatic	Perform communication command processing	Returns the end of the response frame. Set ON/OFF of automatic start after successful BUMP/CAL with W command.	
req[7-1-1-72]	start ON/OFF after successful BUMP/CAL	for automatic start ON/OFF after successful BUMP/CAL	Convert ON/OFF of set automatic start after successful BUMP/CAL to '0', '1' with R command. Returns the end of the response frame.	
	Communication command: Pump stop screen display ON/OFF	Perform communication command processing for pump stop screen display ON/OFF	Set ON/OFF of pump stop screen display with W command. Convert ON/OFF of set pump stop screen display to '0', '1' with R command.	
req[7-1-1-73]			Returns the end of the response frame.	
req[7-1-1-74]	Communication command: Alarm silence ON/OFF	Perform communication command processing for alarm silence ON/OFF	1. Set ON/OFF of alarm silence with W command. 2. Convert ON/OFF of set alarm silence to '0', '1' with R command. 3. Returns the end of the response frame.	
	Communication command:	Perform communication command processing	Use the W command to set the USER password.	
req[7-1-1-75]	User password setting	for USER password setting	Read the set USER password with the R command. Returns the end of the response frame.	
req[7-1-1-76]	Communication command: Maintenance password setting	Perform communication command processing for maintenance password setting	 Set MAINTE password with W command. Read the set MAINTE password with the R command.	
req[7-1-1-77]	Communication command: Password protection ON/OFF	Perform communication command processing for password protection ON/OFF setting	Returns the end of the response frame. Set password protection ON/OFF with W command. Use the R command to convert the ON/OFF of the set password protection to '0', '1'.	
led[7-1-1-77]	Communication command:	Perform communication command processing	Set the R command to convert the ONOTE of the set password protection to 0, 1. Returns the end of the response frame. 1. Set the interval trend cycle with the W command.	
req[7-1-1-78]	Interval trend cycle	for interval trend cycle	Read the set interval trend cycle with the R command. Returns the end of the response frame.	
req[7-1-1-79]	Communication command: Overwrite ON/OFF	Perform communication command processing for overwrite ON/OFF setting	Set overwrite ON/OFF with W command. By using the R command, ON/OFF of the set overwrite is converted to '0', '1'.	
req[7-1-1-80]	Communication command: Time	Perform communication command processing for time	3. Returns the end of the response frame. 1. Record the current date and time with W command. 2. Use the R command to get the current date and time.	
red[7-1-1-00]	Communication command:	Perform communication command processing	Returns the end of the response frame. With the R command, character data corresponding to the main program number is	
req[7-1-1-81]	Main program number	for main program number	created. 2. Returns the end of the response frame.	
req[7-1-1-82]	Communication command: Subprogram number	Perform communication command processing for subprogram number	With the R command, character data corresponding to the sub program number is created. Returns the end of the response frame.	
req[7-1-1-83]	Communication command: Get gas table version number	Perform communication command processing for get gas table version number	 Netth the R command, character data corresponding to the gas table version number is created. 	
	Communication command:	Perform communication command processing	Returns the end of the response frame. With the R command, character data corresponding to the SUM value of	
req[7-1-1-84]	Main program SUM value	for main program SUM value	the main program is created. 2. Returns the end of the response frame.	
req[7-1-1-85]	Communication command: Main program version number	Perform communication command processing on main program version number	 With the R command, character data corresponding to the main program version number is created. Returns the end of the response frame. 	
req[7-1-1-86]	Communication command: Gas table SUM value	Perform communication command processing on Gas table SUM value	With the R command, character data corresponding to the Gas table SUM value is created.	
-	Communication command:	Perform communication command processing	Returns the end of the response frame. With the W command, FRAM default.	
req[7-1-1-87]	Default processing	for default processing	 In the C command, if FRAM default end confirmation processing is OFF, put ACK in the buffer. When FRAM default end confirmation processing is ON, put SUB in the buffer. 	
	Communication command:	Perform communication command processing	Returns the end of the response frame. With the W command, turn on the FRAM write start flag.	
req[7-1-1-88]	Data update processing for FRAM setting	for data update processing for FRAM setting	2. Returns the end of the response frame.	
req[7-1-1-89]	Communication command: FRAM memory dump processing	Perform communication command processing for FRAM memory dump processing	 Using the R command, obtain the result of LOAD processing for FRAM data communication dump. When the result is OK, the UEX data for dump is converted to ASCII data.	-
	Communication command:	Perform communication command processing	When the result is OK, the HEX data for dump is converted to ASCII data. Returns the end of the response frame. Convert ASCII data to HEXI data with R command.	
req[7-1-1-90]	FLASH memory dump processing	for FLASH memory dump processing	When the data size is smaller than 256, execute the following processing 3 to 4. Read specified byte to FLASH.	
	2	Defendance of the second of th	Binary processing in progress flag set. Returns the end of the response frame.	
req[7-1-1-91]	Communication command: Data logger check data write processing	Perform communication command processing for data logger check data writing processing	Deploy test data of logger function with W command. Returns the end of the response frame.	
	Communication command: Data logger data clear processing	Perform communication command processing for data logger data clear processing	Clear the logger function data logger with W command. In the C command, if the data logger clear end confirmation processing of the logger.	
req[7-1-1-92]			function is OFF, put ACK in the buffer. 3. When data logger clear end confirmation processing of logger function is ON,	
	Communication command:	Perform communication command processing	put SUB in the buffer. 4. Returns the end of the response frame. 1. With the W command, clear the power logger of the logger function	
req[7-1-1-93]	Data logger power event clear processing	for data logger power event clear processing	In the C command, if the logger clear end confirmation processing of the logger function is OFF, put ACK in the buffer	
req[7-1-1-93]			Power supply of logger function When log clear clear end processing is ON, put SUB in the buffer.	
	Communication command: Data logger start stop processing	Perform communication command processing for data logger start stop processing	4. Returns the end of the response frame. 1. Execute the following processing 2 to 6 with the W command. 2. Update the PEAK value to the current value.	
req[7-1-1-94]		a agg and processing	Initialize accumulated area, average value. Initialize STEL value and TWA value.	
			Turnoff the resume flag. Start logger measurement. Returns the end of the response frame.	
req[7-1-1-95]	Communication command: Factory setting save reset processing	Performs communication command processing for factory setting save reset processing	N. Returns the end of the response frame. Use the W command to record factory settings and reset alarm points. Use the R command to read the factory default settings and reset alarm points.	
	Communication command:	Perform communication command processing	Returns the end of the response frame. Record alarm point for reset with W command.	
req[7-1-1-96]	Saving and restoring processing of alarm point for resetting	for Saving and restoring processing of alarm point for resetting	Read alarm point for reset by R command. Returns the end of the response frame.	
req[7-1-1-97]	Communication command: Lunch break save reset processing	Perform communication command processing for lunch break save reset processing	 Record lunch break with W command. With the R command, read the launch break and write the launch break data to the processing buffer.	
<u> </u>	Communication command:	Perform communication command processing	the processing butler. 3. Returns the end of the response frame. 1. With the W command, turn on the power OFF flag.	
req[7-1-1-98]	Power OFF processing	for power OFF processing	 Returns the end of the response frame.	
	Communication command: BUMP execution	Perform communication command processing for BUMP execution	 Perform the following processing 2 to 8 with the W command. Get serial number.	
req[7-1-1-99]	(concentration specification)		A Acquire tolerance rate. A Acquisition of concentration. BUMP success result.	
rodfv-1-1-gal			Concentration value at BUMP. Get current date and time.	
			Restore backup. Returns the end of the response frame.	

	Communication command: Fast bump record	Perform communication command processing for fast bump recording	Perform the following processing 2 to 8 with the W command. Acquire the SDM serial number.	
	i asi bunip recolu	for last bump recording	Acquire the calibration concentration. Acquire result concentration.	
			S. Acquire success / fault result of fast bump. Substitute concentration values for fast bumps.	
			7. When fast bump is being performed, turn on execution feasibility flag.	
req[7-1-1-100]			If the fast bump is successful, put a bump record in FRAM. Put the current time in bump date and time.	
			Acquire the bump test concentration. Acquire bump result concentration.	
1			Acquire the SDM serial to be used for the bump. Record BUMP of logger function.	
			14. Send date to SDM. 15. Get the current date and time.	
	Communication command:	Perform communication command processing	Returns the end of the response frame. With the W command, set the EX command flag of the command for SDM and receive.	
req[7-1-1-101]	SDM display processing	for SDM display processing	the EX command data for SDM. 2. Returns the end of the response frame.	
	Communication command:	Perform communication command processing	Execute the following processes 2 with the W command.	
req[7-1-1-102]	FW rewrite start processing (main)	for FW rewrite start processing (main)	Update mode flag set processing. Returns the end of the response frame.	
	Communication command:	Perform communication command processing	W command starts FW rewriting of the sensor MCU.	
req[7-1-1-103]	FW rewrite start processing (sub)	for FW rewrite start processing (sub)	Returns the end of the response frame.	
	Communication command: SensorMCU FW rewritable status	Perform communication command processing for sensorMCU FW rewritable status acquisition	Execute the following processes 2 and 3 with the S command. Sensor MCU FW update mode acquisition processing.	
req[7-1-1-104]	acquisition		Sensor MCU FW update start process. Returns the end of the response frame.	
	Communication command: SensorMCU FW rewrite processing	Perform communication command processing	With the S command, after erase block, create a response. With the W command, after rewrite block and calculate SUM value, create a response.	
req[7-1-1-105]	Sensonico PW rewrite processing	for SensorMCU FW rewrite processing	With the E command, after comparison sum value, create a response.	
	Communication command: FW	Perform communication command processing	Returns the end of the response frame. With the R command, character data corresponding to the FW rewrite mode is created.	
req[7-1-1-106]	rewrite operation mode	for FW rewrite operation mode	Returns the end of the response frame.	
	Communication command: FW	Perform communication command processing	Execute the following processes 2 and 3 with the S command.	
req[7-1-1-107]	rewrite start processing (main)	for FW rewrite start processing (main)	2. ON processing of the power OFF flag and update flag. 3. FirmUpdate flag set processing.	
			Returns the end of the response frame.	
	Communication command: pump drive/stop processing	Perform communication command processing for pump drive/stop processing	 With the W command, after setting the pump Lo/Hi, pump drive ON/OFF, create a response. 	
req[7-1-1-108]			With the R command, after reading status of the pump Lo/Hi, pump drive ON/OFF, create a response.	
	Communication command: pressure sensor adjustment value setting	Perform communication command processing for pressure sensor adjustment value setting	With the W command, after setting the pressure sensor offset value, create a response. With the R command, after reading the pressure sensor offset value, create a response.	
req[7-1-1-109]	processing	processing	With the R command, after reading the pressure sensor offset value, create a response. Returns the end of the response frame.	
	Communication command: Flow	Perform communication command processing	With the W command, after setting the flow reduction threshold, create a response.	
req[7-1-1-110]	reduction threshold setting process	for flow reduction threshold setting process	With the R command, after reading the flow reduction threshold, create a response. Returns the end of the response frame.	
	Communication command:	Perform communication command processing	1 Everyte the following processor 2 to 4 with the P command	
req[7-1-1-111]	Concentration + status	for concentration + status	Execute the following processes 2 to 4 with the R command. Obtain battery voltage icon. Obtaining battery voltage istus.	
req[/-i-i-iii]			Create character data corresponding to battery voltage. Returns the end of the response frame.	
	Communication command:	Perform communication command processing	 With the R command, character data corresponding to the concentration is created. 	
req[7-1-1-112]	Concentration	on concentration	Returns the end of the response frame.	
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	Communication command:	Perform communication command processing	Execute the following processes 2 to 5 with the R command.	
	Peak concentration	for peak concentration	In the case of O2, the minimum value is placed in the peak concentration value and the minus flag of the minimum value is placed in the peak flag.	
req[7-1-1-113]			For cases other than O2, put the maximum value in the peak concentration value and put the minus flag of the maximum value in the peak flag.	
			 In case of sensor abnormality, create a character string corresponding to sensor abnormality. 	
	Communication command:	Perform communication command processing	Returns the end of the response frame. Read the A/D values of the battery and all sensors with the R command.	
req[7-1-1-114]	A/D value	for the A/D value	Returns the end of the response frame.	
req[7-1-1-115]	Communication command: Device connection check	Perform communication command processing for device connection check	Use the R command to check the connection status of the device. Returns the end of the response frame.	
	Communication command:	Perform communication command processing	W command stops warning if '0' is in buffer.	
req[7-1-1-116]	Alarm test	for alarm test	If the buzzer flag is greater than 2, set alarm 1 H alarm and issue an alarm. With the R command, put the result of alarm test ON / OFF setting confirmation	
1eq[7-1-1-116]			processing of SDM or manufacturing facility into the buzzer flag. 4. Change numeric value to character data.	
	Communication command:	Perform communication command processing	Returns the end of the response frame. With the S command, after setting the alarm lamp, buzzer, vibration motor ON/OFF.	
req[7-1-1-117]	Alarm check (for SDM)	for alarm check	create a response. 2. Set the alarm test ON/OFF of SDM or manufacturing equipment with E command.	
	Communication command:	Perform communication command processing	Returns the end of the response frame. In the loading process, buffer the flags of the MODE and AIR keys.	
req[7-1-1-118]	Obtain key operation status	for obtaining operation status	Returns the end of the response frame.	
see[7.4.4	Communication command: LED light	Perform communication command processing	1. With the S command, after setting the light ON, create a response.	
req[7-1-1-119]	check	for LED light check	With the E command, after setting the light OFF, create a response. Returns the end of the response frame.	
req[7-1-1-120]	Main processing after receiving SCI5 command	Perform main processing after receiving SCI5 command	Perform 2 and 3 when the reception completion flag is ON. Perform command processing.	
ren(7-4-2-41	Create UPDATA display	Perform display creation processing at UPDATA	Send the send data. Clear LCD display data.	
req[7-1-2-1] req[7-1-2-2]	FirmUpdate flag set	Perform FirmUpdate flag set processing	Display it as UP DATA. Turnon the FirmUpdate flag.	
req[7-1-2-3]	FirmUpdate mode flag set	Perform FirmUpdate mode flag set processing	Set the FirmUpdate mode flag to ON.	
req[7-1-2-4]	FirmUpdate mode flag acquisition LED processing for FW rewrite display	Perform FirmUpdate mode flag acquisition processing Perform LED processing for FW rewriting display	Return the FirmUpdate mode flag Set the LED process under the following conditions 2 to 5.	
req[7-1-2-5]			Update standby time. Updating.	
			 Upon successful completion of update. On update error.	
req[7-1-2-6]	FW rewrite LED error blink	Perform FW rewriting LED error blinking processing	Once LED turns off, error blinking is carried out. LED error Start flashing.	
	Key check processing	Perform key check processing	If the state of the sample key is 1, turn on the power.	
req[7-1-2-7]			2. If the status of the sample key is 0, turn off the power. 3. If you press and hold for a long time, perform the following processing 4 to 5. 4. Turnoff LED.	
	EM rough or	Internal processing '	Set update status to idle state.	
	FW rewrite processing in progress 1 msec interrupt	Interrupt processing is performed for 1 ms during FW rewrite processing	Allow interrupts. Call 1 msec timer interrupt processing.	
req[7-1-2-8]			When the 10 msec count is 0, set the 10 msec count to 10 and key check processing. Call timer processing.	
req[7-1-2-9]	AccessWindow setting	Perform the Accesswindow setting	Set access window.	
.oq[,-1-2-9]	FW rewrite processing	Perform FW rewrite processing	Confirm the end of the access window setting. Reset the watchdog timer.	
	3		Initialize FW rewrite RAM. Maintain power on.	
			Disable interrupt. Relocate variable vector table to RAM.	
1			6. Set interrupt handling for SCI 5. 7. Enable CMI 1 interrupt in ICU.	
req[7-1-2-10]			7. Enable CWI i interrupt in ICO. 8. Start CMI1 count. 9. Resetting the variable vector table address.	
1			Nesetting the variable vector table address. 10. Allow interrupts. 11. Deploy FTI processing code to RAM.	
1			Set FRDYI callback function and interrupt priority level. Set Set Set Set Set Set Set Set Set	
1			13. Start communication. 14. Perform main loop processing. 15. Perform LED processing.	
see[7.4.0	FW rewrite processing in progress	Interrupt processing is performed for 10 ms during	Call key check processing.	
req[7-1-2-11]	10 msec interrupt	FW rewrite processing	Call timer processing.	
req[7-1-2-12]	FLASH open	Perform FLASH open	 Substitute the FLASH open result. Return the result flags.	
req[7-1-2-13]	FLASH close	Perform FLASH close	 Assign the FLASH close result. Return the result flags.	
	FLASH erase block	Perform FLASH erase block	Initialize the result flags. If the number of blocks is less than the block upper limit, perform the following.	
req[7-1-2-14]			processing. 3. Do a FLASH block erase and get the result.	
	Startup area switching execution	Perform startup area switching execution	WDT restart while FLASH status is BUSY Initialize the result flags.	
req[7-1-2-15]			 Execute FLASH startup area switching and get the result. Return result flags.	

## Advancement		T-		T	
April	req[7-1-2-16]	Get startup area FLASH check blank	Perform get startup area Perform FLASH check blank	 If the check size is 0, assign an error to the result flag. 	
2007-2006-2006-2006-2006-2006-2006-2006-	req[7-1-2-17]	TENOT ORGAN DIGIN	T GROWN F EACH GROOK SIZER	In cases other than process 1, if the FLASH blank check succeeds, assign normal to the result flag.	
Auto-				WDT restarts while FLASH status is BUSY. 3. Return result flags.	
A	req[7-1-2-18]	FLASH write page	Perform FLASH write page	For other than process 1, if FLASH is blank, write to FLASH and get the result.	
March Marc		FLASH read page	Perform FLASH read page	 If the read buffer is NULL or the read size is 0, assign an error to the result flag. 	
March Marc	req[7-1-2-19]			result flag.	
1.5		Erase with address size	Perform erase with address size	Get the erase start block number.	
## 12-00 American Services Proceedings Process Pro	req[7-1-2-20]			Do a block erase and get the result.	
1.00 1.00	req[7-1-2-21]	Setting FLASH information	Perform setting FLASH information	 If the FLASH mode is NORMAL, UPDATE, or RESTART, get the FLASH mode and 	
Management of the control of the con		Get FLASH information	Perform get FLASH information	Initialize the result flags.	
	req[7-1-2-22]			Return result flag.	
March Marc	req[7-1-2-23]	Flash access end	Perform flash access end	Resume interrupt processing.	
March Marc			Perform suspend interrupt processing	Disable interrupts.	
Contract C		Wait for FLASH write page status			
Processor Proc	ren[7-1-2-27]	Compare variables in U_CHR address	Perform compare variables in U_CHR address		
Control Cont	16q[1-1-2-21]			3 Count up two variables. 4. Return comparison result.	
## 1990 Programment	req[7-1-2-28]	***			
March Marc	req[7-1-2-29]	Convert HEX(Byte) data to ASCII data	Perform convert HEX(Byte) data to ASCII data	Count the converted number.	
Control Cont	req[7-1-2-30]		Perform convert ASCII data to HEX (Byte) data	 If the size of the ASCII data is 2, convert it to 2 bytes of HEX data. 	
Miles	req[7-1-2-31]	SUM calculation of transmitted data	Perform SUM calculation of transmitted data	 Calculate the SUM value by adding data equal to the number of counters to the data in the receive buffer. 	
1. Company for the comment of the company of th		Received data SUM check	Perform received data SUM check	 Add the data from the start data STX to the end data ETX of the receive buffer. 	
Processor processor Processor processor Processor processor Processor processor Processor Processor processor Processor Processor processor Proc	req[7-1-2-32]			Get the received SUM value. Compare the calculated SUM value with the received SUM value to get the result.	
Services of disposed to tax and printed of the section of the control of the cont	_	Receive data command processing	Perform receive data command processing	 Copy the command part of the receive buffer to the transmit buffer. 	
Processor of recognition of the control of the co	req[7-1-2-33]			If the command processing result is an error, assign NAK to the send buffer.	
1	see[7 4 0 - ··	Termination of response frames	Perform termination of response frames	Assign the end data to the transmit buffer. Calculate the SUM value and assign it to the transmit buffer.	
Application	req[7-1-2-34]			Assign a terminator to the transmit buffer.	
Marchael	req[7-1-2-35]	command		 For the R command, get the device name. Assign the result to the send buffer. Send the transmit buffer.	
March on the command	req[7-1-2-36]	FW update command	·	 For the W command, get the mode type. Assign the result to the send buffer. Send the transmit buffer.	
Market control The Comments of the control	req[7-1-2-37]			 For the R command, get the operating mode. Assign the result to the send buffer. Send the transmit buffer. 	
Part	req[7-1-2-38]	Startup area switching command	Perform startup area switching command	send buffer.	
Will Cold and Personal command. Will cold and preparation command	req[7-1-2-39]	Restart command	Perform restart command	 For S command, execute the mode switching process and get the result. Assign the 	
Section of the control of the contro		FW update preparation command	Perform FW update preparation command	Send the transmit buffer.	
Part	.04[, -1-2-40]			Send the transmit buffer. For the S command, get the rewrite start address, data size, and SUM value, start	
All the cost of the Commons, perform only concessing and other the manufacture of the cost of the cost of the Commons, design the manufacture of the cost of the				2. For the W command, get the write address, do a FLASH write and get the result. Assign	
4. Source intermination. 1. Signature and contraction. 1. Si	req[7-1-2-41]			3. In the case of the E command, perform end processing and obtain the result. Assign the	
## Comment of the Com					
Public Processing Public PV spaller preserving Public PV					
per 1-2-44 Per 1 P	req[7-1-2-42]			Perform main loop processing.	
Septiments of the septiments o		Mode switching	Perform mode switching	Perform main loop processing. Get the mode switching result. Return the mode switching result.	
Description of the control costs of the cost		Mode switching	Perform mode switching	2. Perform main loop processing. 1. Get the mode switching result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing.	
## Profession PV sensite feature ## Profession P	req[7-1-2-43]	Mode switching	Perform mode switching	2. Perform main loop processing. 1. Get the mode ewitching result. 2. Return the mode ewitching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WDT restart. 3. Erase FLASH and get the result.	
Py wester brained Perform File register Application File register Applic	req[7-1-2-43]	Mode switching	Perform mode switching	2. Perform main loop processing. 1. Get the mode switching result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WOT restart. 3. Erase FLASH and get the result. 4. Perform WOT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size.	
The state of the s	req[7-1-2-43]	Mode switching FW update pre-start processing	Perform mode switching Perform FW update pre-start processing	2. Perform main loop processing. 1. Get the mode switching result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform LAC Section 1. A Committee of the s	
A Anging the record of comparing the records SSM value and the collabolate SSM value as of the SSM val	req[7-1-2-43]	Mode switching FW update pre-start processing FW rewrite	Perform mode switching Perform FW update pre-start processing Perform FW rewrite	2. Perform main loop processing. 1. Get the mode switching result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WDT restart. 3. Enase FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 3. Return the result.	
S. Raturn State flag Variant LED control I. Fine LED Double by S. R. Raturn State flag Variant LED control I. Fine LED Double by S. R. Raturn LED control Variant LE	req[7-1-2-43]	Mode switching FW update pre-start processing FW rewrite	Perform mode switching Perform FW update pre-start processing Perform FW rewrite	2. Perform main loop processing. 1. Get the mode switching result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WDT restart. 3. Erase FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 8. Return the receive data size is less than the write data size, perform 3 and 4. 1. If the receive data size is less than the write data size, perform 3 and 4.	
In the LED mode lay is EPASE, and LED-OFF LED-OFF LED-OFF lay and service control of the LED mode lay is EPASE, and LED-OFF lay and service control of the LED mode lay is a Particum LED mode lay asking a service collection. The LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay is a service lay in the LED mode lay in the LED mod	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45]	Mode switching FW update pre-start processing FW rewrite	Perform mode switching Perform FW update pre-start processing Perform FW rewrite	2. Perform main loop processing. 1. Get the mode eventhing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform on the processing. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform WDT are size of the processing. 1. Easer FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result has successful, update the result. 2. If rewriting is successful, and the write data size. 6. Return the result successful, and the write data size, perform 3 and 4. 2. Initialize the result flags. 3. Calculate the SUM value of the rewritten FW. 4. Assign the result of companing the received SUM value and the calculated SUM value to	
Indignate Indi	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45]	Mode switching FW update pre-start processing FW rewrite	Perform mode switching Perform FW update pre-start processing Perform FW rewrite	2. Perform main loop processing. 1. Get the mode withing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WD1 restart. 3. Erase FLASH and get the result. 4. Perform WD1 restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, SI flow result is successful, update the rewrite start address, data size, SUM value buffer, SI flow result is successful, add the write data size. 5. Return result thing. 5. Return result thing. 6. Return the result. 7. If the receive flow successful, add the write data size. 7. Return the result. 8. Return the result. 9. If the receive flast size is less than the write data size, perform 3 and 4. 9. Initiatize the result flags. 9. Calculate the SUM value of the rewritten FW. 9. A saign the result of comparing the received SUM value and the calculated SUM value to the result flags.	
Universal callback Perform 10maic callba	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished	Perform mode switching Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform FW rewrite finished	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Erases FLASH and que the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result Hang. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 3. Return the result. 1. The receive data size is less than the write data size, perform 3 and 4. 1. If the receive data size is less than the write data size, perform 3 and 4. 3. Calculate the SUM value of the rewritten FW. 4. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 5. Return result flag. 1. If the LED mode flag is IDIE, set LED1=OFF, LED3=OFF, LED3=OFF.	
If the LED toggle counter is 0, toggle has LED CNOFF flag and set the toggle time (100ms) in the LED toggle counter is 0, toggle has LED CNOFF flag and set the toggle time (100ms) in the LED toggle counter.	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-47] req[7-1-2-48]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set	Perform mode switching Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Erases FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 3. Return the result. 1. The scene we data size is less than the write data size, perform 3 and 4. 1. The scene was data size is less than the write data size, perform 3 and 4. 1. The scene was data size is less than the write data size, perform 3 and 4. 1. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 5. Calculate the SUM value of the rewritten FW. 4. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 1. If the LED mode flag is BLE, set LED1-OF, LED2-OFF, LED3-OFF. 1. If the LED mode flag is RMSE, set LED1-OFF, LED2-OFF, LED3-OFN. 1. He has performed request flag to the LED mode flag is MRTE, set LED1-OFF, LED2-OFF, LED3-OFN. 1. He has performed request flag to the LED mode flag is MRTE, set LED1-OFF, LED2-OFF, LED3-OFN. 1. He has performed request flag to the LED mode flag is MRTE, set LED1-OFF, LED2-OFF, LED3-OFN. 1. He because of the result and the set LED1-OFF, LED2-OFF, LED3-OFN. 1. He has performed request flag to the LED mode flag is MRTE, set LED1-OFF, LED2-OFF, LED3-OFN.	
Registration Regi	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-47] req[7-1-2-48]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting	Perform mode switching Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED mode set Perform reset flag setting	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing, seemed that the following processing. 1. If the data size is greater than 0 and the waste size is divisible by the rewriting size, perform WDT restart. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result thing. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 1. If the receive data size is less than the write data size, perform 3 and 4. 3. Calculate the SUM value of the rewritten FW. 4. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 5. If the LED mode flag is DLE, set LED1-OF, LED2-OFF, LED3-OFF, If the LED mode flag is GRASE, set LED1-OFF, LED2-LED ON/OFF flag, and 1. Assign the reset request flag to the terest flag. 1. Assign the reset request flag to the reset flag. 1. Assign the reset request flag to the reset flag. 1. Perform the following processing when the LED toggle counter is non-zero.	
reg7-12-261 Fell update reset process Felform FIV update reset processing Felform FIV update reset p	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-47] req[7-1-2-48]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting	Perform mode switching Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED mode set Perform reset flag setting	2. Perform main loop processing. 1. Got the mode eventhing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing, seemed that the following processing. 2. Eases FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result start address, data size, SUM value buffer, and rewrite data size. 7. Return result start successful, and the write data size. 7. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Initiatize the result flag. 7. Calculater be SUM value of the rewritten FW. 7. Calculater be SUM value of the rewritten FW. 7. Return result flag. 1. If the LED mode flag is DUE, set LED1-OP, LED2-OFF, LED2-OPF, LED3-ON, lift but the counting is PRASE, set LED1-OPF, LED2-OFF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED2-OFF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED2-OFF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED2-OFF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED2-OFF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED2-OFF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED2-OFF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED2-OFF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED3-OFF, LED3-OPF, LED3-ON, lift but Dodg flag is PRASE, set LED1-OPF, LED3-OFF, LED3-OPF, LED3-OPF	
FV update reset process Perform FV update reset process 1. If the recent figs a waiting for treammelian completers, check the transmission status of soft-status of the reset figs a waiting for treammelian completers, check the transmission status of soft-status of the reset figs to	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-47] req[7-1-2-48]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec callback	Perform FW update pre-start processing Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform reset flag setting Perform 10msec callback	2. Perform main loop processing. 1. Got the mode ewithing result. 2. Return the mode switching result. 1. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing, seemed that the following processing. 1. If the data size is greater than 0 and the size is divisible by the rewriting size, perform WDT restart. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. Indistiblish the sealth flag. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Indistiblish the result flag. 3. Return the result flag. 4. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 5. Return result flag. 6. If the LED mode flag is DILE, get LED1-ON, LED2-OFF, LED3-OFF, ILD3-ON, If the LED mode flag is GRASE, set LED1-OFF, LED2-LED ON/OFF flag, and 1. Assign the reset request flag to the reset flag. 7. Assign the reset request flag to the reset flag. 7. Assign the reset request flag to the reset flag. 7. Perform the following processing when the LED loggle counter is non-zero. 7. Decrement the LED toggle counter. 8. If the LED mode flag is Ind. Set perform FV update reset processing. 9. If the LED mode is counter. 9. If the LED mode flag is GRASE, set perform FV update reset processing. 1. Here the set perform FV update reset processing. 1. Here the set flag is con-zero, perform FV update reset processing.	
reg(7-12-58) Fell update end processing Perform FV update end processing Perform FV update end processing 1.5 Sop senial communication. Perform port operation for power retention Perform port operation for power retention on 1.5 Sop senial update (PDF). Reg(7-12-58) EXP port setting processing Perform LED port setting processing Perform key port acquisition process Reg(7-12-58) EXP port acquisition process Perform key port acquisition processing for LCD II I the key type is the POWER key, assign true to the result flag, otherwise, assign false to the reg(7-12-58) Perform key port acquisition processing for LCD II I the key type is the POWER key, assign true to the result flag, otherwise, assign false to the reg(7-12-58) Perform port acquisition processing for LCD II I the key type is the POWER key, assign true to the result flag, otherwise, assign false to the reg(7-12-58) Perform port acquisition processing for LCD II I the key type is the POWER key, assign true to the result flag, otherwise, assign false to the reg(7-12-58) Perform port acquisition processing for LCD II I the NOVEF request flag is to N, the non-the LCD backlight, and if it is OFF, turn off the LCD backlight, and if it is OFF, turn off the LCD backlight, and if it is OFF, turn off the LCD backlight, and if it is OFF, turn off the LCD backlight is the LCD backlight in the Perform LCD backlight is the LCD backlight in the Perform LCD backlight is the LCD backlight in the Perform LCD backlight is the LCD backlight in the Perform LCD backlight is the LCD backlight in the Perform LCD backlight is	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec callback	Perform FW update pre-start processing Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform reset flag setting Perform 10msec callback	2. Perform main loop processing. 1. Got the mode eventhing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing, seemed that the following processing. 2. Eases FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. Intracting is successful, add the write data size. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Intracting is successful, add the write data size, perform 3 and 4. 2. Intracting is SUM value of the rewritten FW. 3. Calculater be SUM value of the rewritten FW. 5. Return result flag. 1. First the LED mode flag is DLE, set LED1-OF, LED2-OFF, LED2-OFF. 2. Intracting lag is EASE, set LED1-OFF, LED2-OFF, LED2-ON. 3. When LED mode flag is DLE, set LED1-OFF, LED2-LED ON/OFF flag, and 4. Assign the reset request flag to the reset flag. 3. Assign the reset request flag to the trees flag. 4. Assign the reset request flag to the test flag. 5. Perform the Indioxing processing when the LED toggle counter is non-zero. 5. Decrement the LED toggle counter. 6. If the LED toggle counter is on toggle the LED ON/OFF flag and set the toggle time (100ms) in the LED toggle counter. 6. If the LED mode flag is SIMSE is a set of the set flag. 6. If the LED mode flag is Indioxing processing when the LED toggle counter is non-zero. 6. Decrement the LED toggle counter. 7. If the LED mode flag is Indioxing processing is non-zero, perform WDT restart. 8. Perform the Communication processing.	
2 Turn of the power retention port.	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-47] req[7-1-2-48] req[7-1-2-48] req[7-1-2-50]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec callback FW update main loop	Perform FW update pre-start processing Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED mode set Perform LED mode set Perform 10msec callback Perform 10msec callback	2. Perform main loop processing. 1. Get the mode eviniching result. 2. Return the mode eviniching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform VID resident for result. 4. Perform WIDT resident for result. 4. Perform WIDT resident for result. 4. Perform WIDT resident for result. 6. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. Irrewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Initiatize the result flag. 3. Calculate the SUM value of the rewritten FW. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. Return result flag. 7. Return	
Perform port operation for power relateration [1] When the ONCPF request flag is ON, the power relateration point is turned OF, and when it is OFF, the power relateration point is turned OFF, and when it is OFF, the power relateration point is turned OFF, and the power relateration point is turned OFF. [2] If the key bye is 12th Poly is 12ED, by the 12ED, bye is 12	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-47] req[7-1-2-48] req[7-1-2-48] req[7-1-2-50]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec callback FW update main loop FW update reset process	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform TW update main loop Perform FW update main loop Perform FW update reset process	2. Perform main loop processing. 1. Get the mode eviniching result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WDT reside. 4. Perform WDT reside. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result thag. 1. Rewrite data size. 6. Return result thag. 1. Rewrite the FLASH memory and get the result. 2. Irrewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size is less than the write data size. 3. Return the result. 4. Assign the result disput the rewriter FW. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. Return result flag. 5. Return result flag. 7. R	
reg[7-12-55] LED pot setting processing Perform LED pot setting processing Perform LED pot setting processing Perform key port acquisition process ng for LCD Perform port setting processing for LCD Perform port setting processing for LCD Perform	rea[7-1-2-43] rea[7-1-2-44] rea[7-1-2-44] rea[7-1-2-45] rea[7-1-2-46] rea[7-1-2-46] rea[7-1-2-46] rea[7-1-2-46] rea[7-1-2-50] rea[7-1-2-51]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec callback FW update main loop FW update reset process	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform TW update main loop Perform FW update main loop Perform FW update reset process	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WOT resiant. 4. Perform WOT resiant. 4. Perform WOT resiant. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. It rewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size is less than the write data size. 3. Return the result. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. Return result flag. 5. Return result flag. 6. Return result flag. 7. If the LED mode flag is ERASE, set LED1=OFF, LED2=OFF, LED3=OFF, If the LED mode flag is LERASE, set LED1=OFF, LED2=OFF, LED3=OFF, If the LED mode flag is WRITE, earl LED1=OFF, LED2=OFF, LED3=OFF, If the LED mode request flag to the LED mode flag. 6. Assign the result request flag to the resert flag. 6. Assign the result request flag to the resert flag. 6. Assign the result request flag to the resert flag. 6. Assign the result request flag to the resert flag. 7. Perform the following processing when the LED longOpe counter is non-zero. 7. Decrement the LED toggle counter is 0, toggle the LED nove flag and set the toggle time (100ms) in the LED toggle counter is 0, toggle the resert flag to transmission status of Perform PC communication. 6. Stop serial communication. 6. Stop serial communication. 6. Stop serial communication. 6. Stop serial communication.	
the result flag. Fort setting processing for LCD Perform port setting processing for LCD Perform setial communication main processing proces	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-51] req[7-1-2-52] req[7-1-2-52]	Mode switching FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update reset process FW update end processing	Perform FW update pre-start processing Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform rewrite finished Perform rewrite finished	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform LAC States of the result. 2. Return the mode switching result. 3. Perform WDT restart. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. Irrewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Initiatize the result flag. 3. Calculate the SUM value of the rewritten FW. 4. Assign the result of comparing the received SUM value and the calculated SUM value to Seturn result flag. 5. Return result flag. 6. If the LED mode flag is IDLE, set LED1=OPF, LED2=OPF, LED3=OPF, LE	
the result flag. Fort setting processing for LCD Perform port setting processing for LCD Perform setial communication main processing proces	req[7-1-2-43] req[7-1-2-44] req[7-1-2-45] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-61] req[7-1-2-51] req[7-1-2-53]	Mode switching FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update main loop FW update end processing Port operation for power retention	Perform mode switching Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform touse caliback Perform TW update main loop Perform FW update main loop Perform FW update reset process	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Erase FLASH and age the result. 4. Perform WOT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. It rewriting is successful, add the write data size. 3. Return the result. 3. Return the result. 4. It rewriting is successful, add the write data size, perform 3 and 4. 1. Initiatize her result flags. 5. Calculate the SUM value of the rewritten FW. 6. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 5. Calculate the SUM value of the rewritten FW. 6. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 6. If the LED mode flag is BUE, set LED1-6/PL, LED2-6/PF, LED3-6/PF. 6. If the LED mode flag is BUE, set LED1-6/PL, LED2-6/PF, LED3-6/PF. 6. If the LED mode flag is WRITE, set LED1-6/PL, LED2-6/PF, LED3-6/PF. 6. Assign the reset request flag to the LED mode flag. 6. Assign the reset request flag to the LED mode flag. 6. Assign the reset request flag to the LED mode flag. 6. Assign the reset request flag to the reset flag. 6. Perform the Colonium processing when the LED toggle counter is non-zero. 6. Decrement the LED toggle counter. 6. Perform the Olivoming processing when the LED toggle counter is non-zero. 7. Decrement the reset flag is on-zero, perform FW update reset processing. 7. If the reset flag is non-zero, perform FW update reset processing. 7. If the reset flag is non-zero, perform FW update reset processing. 7. If the reset flag is moneyer perform FW update reset processing. 8. If the LED toggle counter i	
Setial communication main processing Perform serial communication main processing and processing when the received data counter is of the received data is the the end of character, substitute the received data is the received data is the end character, substitute the received data is the received data is the end character, substitute the received data is the received data is the received data is the received data in the the reministry and processing flag. Reply processing to PC Perform poly processing the fine the received data counter is of the received data is the received data is the received data in the the received data is the received data in the the received data is the received data in the the reministry and the received data in the the reministry and the received data counter. Reply processing to PC Perform poly processing the fine the received data counter is of the processing flag. If the received data counter is of the processing flag. If the received data counter is of the processing flag. If the received data counter is one of the processing flag. If the received data counter is of the processing flag. If the received data counter is of the processing flag. If the received data counter is of the processing flag. If the processing flag is flags and the received data is the end character, substitute the received data into the terminator size buffer and attribute the received data into the terminator size buffer and set the receiption completion flag to th	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-62] req[7-1-2-51] req[7-1-2-52] req[7-1-2-53] req[7-1-2-54]	Mode switching FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec callback FW update main loop FW update reset process FW update of processing Port operation for power retention LED port setting processing	Perform TW update pre-start processing Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform LED control Perform LED mode set Perform reset flag setting Perform 10msec callback Perform FW update main loop Perform FW update reset process Perform FW update reset processing Perform port operation for power retention Perform LED port setting processing	2. Perform main loop processing. 1. Get the mode eventhing result. 2. Return the mode eventhing result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WDT resiant. 4. Perform WDT resiant. 4. Perform WDT resiant. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. Initiatize the result. 3. Return the result. 1. If the receive data size is less than the write data size. 3. Return the result. 4. Assign the result of companing the rewritent FW. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. Return result flag. 7. Return result flag. 7	
Section Sect	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-51] req[7-1-2-51] req[7-1-2-52] req[7-1-2-54] req[7-1-2-54] req[7-1-2-54] req[7-1-2-55] req[7-1-2-56]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec callback FW update main loop FW update main loop FW update reset process FW update reset process FW update reset process FW update reset processing LED port setting processing LED port setting processing Key port acquisition process	Perform mode switching Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform rewrite finished Perform TW update main loop Perform FW update main loop	2. Perform main loop processing. 1. Get the mode eviniching result. 2. Return the mode eviniching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WDT resiant. 4. Perform WDT resiant. 4. Perform WDT resiant. 4. Perform WDT resiant. 6. Perform WDT resiant. 7. Perform WDT resiant. 7. Perform WDT resiant. 8. Perform PD resiant. 9. Perform PD res	
seq[7-1-2-69] req[7-1-2-60] req[7-1-2-61] Set at serial communication processing. Start serial communication processing. 1. Perform UART5 reception processing. 1. Perform teach transmission status. 1. Perform teach transmission processing. 1. Perform teach transmission processing teachers. 1. Perform teachers transmission processing. 2. A lift the PV rewrite command processing flags. 3. If the received data counter is greater than or equal to the upper limit, substitute the received data counter and the PV rewrite command processing flags. 3. If the PV rewrite command processing flags. 4. If the PV rewrite command processing flags. 5. If the PV rewrite command pro	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-60] req[7-1-2-50] req[7-1-2-51] req[7-1-2-54] req[7-1-2-54] req[7-1-2-54] req[7-1-2-56] req[7-1-2-56]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite finished LED control LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update reset process FW update reset process FW update on processing FW update reset processing FP update reset processing FP update reset processing FP port operation for power retention LED port setting processing Key port acquisition process Fort setting processing for LCD Serial communication main	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform neest flag setting Perform TW update main loop Perform FW update main loop Perform LED port setting processing Perform LED port setting processing Perform LED port setting processing	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 3. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 3. Erase FLASH and age the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result thing. 1. Rewrite data size. 6. Return result thing. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 3. Return the result. 3. Return the result. 4. Revenum the result. 5. Return result data size. 6. Return result flags. 7. Size of the result of comparing the received SUM value and the calculated SUM value to the result flag. 7. Calculate the SUM value of the rewritten FW. 7. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 7. If the LED mode flag is DLE, set LED1-GN, LED2-GFF, LED3-GFF. 7. If the LED mode flag is RASE, set LED1-GN, LED2-GFF, LED3-GFN. 7. If the LED mode flag is RASE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is WRITE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is WRITE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is WRITE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GN, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GFF, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GFF, LED2-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GFF, LED3-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GFF, LED3-GFF, LED3-GN. 7. He LED mode flag is GRASE, set LED1-GFF,	
MARTS Receive buffer setting Perform UARTS Receive buffer setting Perform UARTS received in processing for receivant he need 1 Perform UARTS step processing.	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-60] req[7-1-2-50] req[7-1-2-51] req[7-1-2-54] req[7-1-2-54] req[7-1-2-54] req[7-1-2-56] req[7-1-2-56]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite finished LED control LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update reset process FW update reset process FW update on processing FW update reset processing FP update reset processing FP update reset processing FP port operation for power retention LED port setting processing Key port acquisition process Fort setting processing for LCD Serial communication main	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform neest flag setting Perform TW update main loop Perform FW update main loop Perform LED port setting processing Perform LED port setting processing Perform LED port setting processing	2. Perform main loop processing. 1. Got the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Erase FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size. 3. Return the result. 1. If the receive data size. 3. Return the result. 1. If the receive data size. 3. Calculate the SUM value of the rewritten FW. 4. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 5. Calculate the SUM value of the rewritten FW. 4. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 1. If the LED mode flag is DIE, set LED1-OF, LED2-OFF, LED3-OFF, IED3-OFF, I	
reg[7-1-2-61] Sefail communication stop Perform serial communication stop [1] Perform LART'S stop processing. [2] Return be brain transmission status. [3] Return be brain transmission status. [4] Return the brain transmission status. [5] Return the brain transmission status. [6] Return transmission status. [6] Return transmission status. [7] Return the brain transmission status. [8] Return the brain transmission status. [9] Return the brain transmission status. [9] Return the brain transmission status. [1] If the received data counter is 0 and the received data is not STX, perform the following processing. [8] Perform serial receive interrupt processing [9] Perform serial receive interrupt processing [9] Return the brain transmission status. [9] If the received data counter is 0 and the received data counter and the PV revertice command processing flag. [9] If the received data counter is or speater than or equal to the upper limit, substitute the initial values for the received data counter and the PV revertice command processing flag. [9] If the PV rewrite command processing flag. [9] If the PV rewrite command processing flag. [9] If the received data counter is dependent and the PV revertice data is the end character, and if the received data counter is the deduct value, substitute the received data counter is the deduct value, substitute the received data counter is the deduct value, substitute the received data counter is the deduct value, substitute the received data in the received data in the received data counter is the deduct value, substitute the received data counter is the deduct value, substitute the received data counter is the deduct value, substitute the received data in the received data in the received data counter is the deduct value, substitute the received data counter is the deduct value, substitute the received data in the	rea[7-1-2-43] rea[7-1-2-44] rea[7-1-2-44] rea[7-1-2-45] rea[7-1-2-46] rea[7-1-2-46] rea[7-1-2-46] rea[7-1-2-46] rea[7-1-2-50] rea[7-1-2-51] rea[7-1-2-52] rea[7-1-2-53] rea[7-1-2-54] rea[7-1-2-55] rea[7-1-2-56] rea[7-1-2-56]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update reset process FW update end processing Port operation for power retention LED port setting processing Key port acquisition process Port setting processing for LCD Setial communication main processing Start serial communication	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform TFW update main loop Perform FW update main loop Perform FW update reset process Perform FW update reset processing Perform prot operation for power retention Perform LED port setting processing Perform LED port setting processing Perform LED port setting processing Perform prot operation for power retention Perform prot operation for power retention Perform prot operation for power processing Perform prot setting processing Perform prot setting processing Perform prot setting processing Perform prot setting processing for LCD Perform prot setting processing for LCD Perform start serial communication main processing	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Perform WDT reside. 3. Perform WDT reside. 4. Perform WDT reside. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result thag. 1. Rewrite data size. 6. Return result thag. 1. Rewrite the FLASH memory and get the result. 2. Irrewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size is less than the write data size. 3. Return the result. 1. If the receive data size is less than the write data size. 3. Return result diag. 3. Calculates the SUM value of the rewritten FW. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. Return result flag. 5. Return result flag. 7. Return result flag is WRTE; earl ELD1-OFF; LED2-OFF; LED3-OFF; LED3	
Return be in large reception flag Perform get binary reception flag 1. Return the binary receive flag 1. Return the binary receive flag 1. Return the binary receive flag 1. If the received data counter is 0 and the received data is not STX, perform the following processing 2. Assign the received data counter is 0 and the received data counter. 3. If the received data counter is greater than or equal to the upper limit, substitute the initial values for the received data counter and the FW rewrite command processing flag. 4. If the FW rewrite command processing flag. 4. If the FW rewrite command processing flag. 4. If the received data counter is the default value, substitute the initial values for the FW rewrite command processing flag. 5. If the FW rewrite command processing flag is that the received data is the end character, and if the received data counter is the default value, substitute the received data into the terminator save buffer and set the reception completion flag to ON. 6. If the FW rewrite command processing flag is that and the three command processing flag is that and the three command processing flag is that and the received data into the terminator save buffer and set the reception completion flag to ON. 6. If the FW rewrite command processing flag is that and the three three command processing flag is that and the three three command processing flag is that and the three three command processing flag is that and the three three command processing flag is that and the three three command processing flag is that and the three three command processing flag is that and the three three command processing flag is that and the three three command processing flag is that and the three three command processing flag is that and the three flag is the second processing flag is the	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-50]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update main loop FW update reset process FW update reset process FW update end processing LED port setting processing Key port acquisition process Port setting processing for LCD Serial communication main processing Start serial communication UARTS Receive buffer setting processing for tending the processing for LCD Serial communication main processing	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform reset flag setting Perform TW update main loop Perform FW update reset process Perform FW update reset process Perform FW update reset processing Perform FW update reset processing Perform PW update reset processing PERform P	2. Perform main loop processing. 1. Get the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the Modering processing. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the Modering processing. 2. Erase FLASH and get the result. 4. Perform WOT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result thing. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 3. Return the result. 3. Return the result. 3. Return the result. 4. Return the result. 5. Return set in the second of the write data size, perform 3 and 4. 2. Initiatize the result flags. 3. Calculate the SUM value of the rewritten FW. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. Return result flags. 6. Return sets the companing the received SUM value and the calculated SUM value to the result flag. 6. If the LED mode flag is DLE, set LED1–0FN, LED2–0FF, LED3–0FF, If the LED mode flag is RASE, set LED1–10FN, LED2–0FF, LED3–0FF, If the LED mode flag is RASE, set LED1–10FN, LED2–0FF, LED3–0FF, If the LED mode flag is RASE, set LED1–10FN, LED2–0FF, LED3–0FF, If the LED mode flag is WRITE, set LED1–10FN, LED2–0FF, LED3–0FF, LED3–0FF, If the LED mode flag is RASE, set LED1–10FN, LED2–0FF, LED3–0FF, LED3–0F	
Serial receive interrupt processing 1. If the received data counter is 0 and the received data is not STX, perform the following processing. 2. Assign the received data counter is greater than or equal to the upper limit, substitute the initial values for the received data counter is greater than or equal to the upper limit, substitute the initial values for the received data counter and the FW revrite command processing flag. 4. If the FW revrite command processing flag. 5. If the FW revrite command processing flag. 5. If the received data counter is the debut value, substitute the received data is the end character, and if the received data counter is the debut value, substitute the received data into the terminator save buffer and set the ecopion completion flag to ON. 6. If the FW revrite command processing flag is false and the received data is the end character, substitute the received data into the terminator save buffer and set the ecopion completion flag to ON. 6. If the FW revrite command processing flag is false and the received data into the terminator save buffer and set the received command processing flag is false and the received data into the terminator save buffer and set the received data into the terminator save buffer and set the received command processing flag is false and the received data into the terminator save buffer and set the received data into the terminator save buffer and set the received completion flag to ON. 7. Perform data transmission end processing. 7. Perform data transmission end processing. 8. Perform data transmission end processing. 9. Perform data transmission end processing. 9. Assign the initial value to the receive completion flag.	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-51] req[7-1-2-51] req[7-1-2-52] req[7-1-2-53] req[7-1-2-56]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED control LED mode set Reset flag setting 10msec callback FW update main loop FW update main loop FW update reset process FW update reset process FW update reset process FW update reset processing F	Perform mode switching Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite finished Perform EW rewrite finished Perform LED control Perform LED mode set Perform node set Perform rewrite finished Perform TW update main loop Perform FW update main loop Perform Serial communication Perform serial communication Perform UART'S Receive buffer setting processing for societion the next 1 loote Perform Wall UART'S Receive buffer setting processing for societion the next 1 loote Perform Wall UART'S Receive buffer setting processing for societion the next 1 loote	2. Perform main loop processing. 1. Got the mode ewithing result. 2. Return the mode switching result. 1. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing, perform the following processing. 2. Erases FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. Intrialize the result flag. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Intrialize the result flag. 3. Return the result flag. 5. Return result flag. 6. Calculater has SUM value of the rewritten FW. 5. Calculater has SUM value of the rewritten FW. 5. Calculater has SUM value of the rewritten FW. 6. Return result flag. 6. If the LED mode flag is DLE, set LED1-0F, LED2-0FF, LED2-0FF. 6. Return result flag. 6. If the LED mode flag is DLE, set LED1-0FF, LED2-0FF, LED2-0FM. 6. Hithe LED mode flag is DLE, set LED1-0FF, LED2-0FF, LED2-0FM. 6. Assign the reset request flag to the reset flag. 6. Assign the reset request flag to the test flag. 6. Assign the reset request flag to the test flag. 7. Assign the reset request flag to the reset flag. 7. Perform the flatkowing processing when the LED toggle counter is non-zero. 7. Decrement the LED toggle counter. 8. If the LED toggle counter is 1. toggle the LED NO/OFF flag and set the toggle time (100ms) in the LED toggle counter. 9. Perform WDT restart. 9. Perform WDT restart. 1. If the reset flag is waring for transmission scompletion, check the transmission status of serial communication, and if transmission completion, check the transmission status of serial communication, and if transmission completion, the NO/OFF request flag, 1. If the LED toggle counter is 1. The NO/OFF request flag, 1. If the LED toggle counter is 1. The N	
3. If the received data counter is greater than or equal to the upper limit, substitute the initial values for the neceived data counter and the PV revertice command processing flag. 4. If the PV revertice command processing flag is false and the 92 work command processing flag. 5. If the PV revertice command processing flag is false and the 92 work command is received, substitute true for the PV revertice command processing flag is true, if the received data is the end is provided in the possibility of the processing flag is true, if the received data is the end is the processing flag is true, if the received data is the end is the provided in the processing flag is flag and the received data is the end character, substitute the received data is the end character, substitute the received data is the end character, substitute the received data into the terminator save buffer and set the reception completion flag to ON. 1. Perform data transmission processing. 2. Perform data transmission processing. 3. Perform data transmission end processing. 4. Assign the initial value to the receive complete. 5. Assign the initial value to the receive complete. 5. Assign the initial value to the receive complete.	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-50] req[7-1-2-52] req[7-1-2-53] req[7-1-2-54] req[7-1-2-56] req[7-1-2-66] req[7-1-2-66] req[7-1-2-66]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update reset process FW update reset process FW update reset process FW update of processing Port operation for power retention LED port setting processing Key port acquisition process FW port setting processing Key port acquisition process FW update on processing FPORT setting processing UED port s	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform neset flag setting Perform IN update main loop Perform FW update reset process Perform FW update reset process Perform FW update reset processing Perform FW update reset processing Perform port operation for power retention Perform EN update reset processing Perform port operation for power retention Perform port operation for power retention Perform serial communication main processing Perform serial communication main processing Perform serial communication Perform serial communication Perform serial communication stop Perform serial communication stop Perform serial communication stop Perform serial communication stop Perform perform	2. Perform main loop processing. 1. Got the mode withing result. 2. Return the mode switching result. 3. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 3. Enase FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size. 3. Return the result. 1. If the receive data size. 3. Return the result. 1. If the receive data size. 3. Return the result. 3. Return the result. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. Calculate the SUM value of the rewritten FW. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. If the LED mode flag is DIE, set LED1-OFL LED2-OFF, LED3-OFF. 6. Return result flag. 6. If the LED mode flag is BURE, set LED1-OFF, LED2-SED, LED3-OFF,	
4. If the FV rewrite command processing lag is false and the 92W command is received, substitute true for the FV rewrite command processing lags. So the first review of the first review of the received data is the end character, and if the received counter is the debatic value, substitute the received data is the end character, and if the received data is the end character, and if the received data is the end character, such statistics the received data is the end character, substitute the received data into the terminator save buffer and set the received commend processing lag is false and the received data is the end character, substitute the received data into the terminator save buffer and set the reception completion flag to ON. 1. Perform data transmission processing. 2. Perform data transmission end processing. 3. Assign the initial value to the receive completion flag. 4. Assign the initial value to the receive completion flag. 5. If the FV rewrite command processing is false and the received, substitute the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and set the received data in the save buffer and set the received data in the terminator save buffer and set the received data in the terminator save buffer and the received data in the terminator save buffer and the received data in the terminator save buffer and the received data in the terminator save buffer and the received data in the terminato	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-50] req[7-1-2-52] req[7-1-2-53] req[7-1-2-54] req[7-1-2-56] req[7-1-2-66] req[7-1-2-66] req[7-1-2-66]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update reset process FW update reset process FW update reset process FW update of processing Port operation for power retention LED port setting processing Key port acquisition process FW port setting processing Key port acquisition process FW update on processing FPORT setting processing UED port s	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform neset flag setting Perform IN update main loop Perform FW update reset process Perform FW update reset process Perform FW update reset processing Perform FW update reset processing Perform port operation for power retention Perform EN update reset processing Perform port operation for power retention Perform port operation for power retention Perform serial communication main processing Perform serial communication main processing Perform serial communication Perform serial communication Perform serial communication stop Perform serial communication stop Perform serial communication stop Perform serial communication stop Perform perform	2. Perform main loop processing. 1. Got the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing, several many performs the following processing. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 2. Erases FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result thag. 1. Rewrite the FLASH memory and get the result. 2. If rewriting is successful, add the write data size. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 1. If the receive data size is less than the write data size, perform 3 and 4. 3. Calculate the SUM value of the rewritten FW. 4. Assign the result of comparing the received SUM value and the calculated SUM value to the result flag. 5. Calculate the SUM value of the rewritten FW. 6. Return result flag. 6. If the LED mode flag is IDLE, set LED1-OFF, LED2-OFF, LED3-OFF, LED3-O	
5. If the FV rewrite command processing flag is true, if the received data is the end character, and if the received data counter is the default value, substitute the received data into the terminator save buffer and set the receiption completion flag to ON. 6. If the FV rewrite command processing flag is false and the received data is the end character, substitute the received data into the terminator save buffer and set the receiption completion flag to ON. Reply processing to PC Perform reply processing to PC Perform data transmission processing. Perform data transmission processing. Perform data transmission end processing. 1. Assign the initial value to the receive counter. 2. Assign the initial value to the receive completion flag.	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-50] req[7-1-2-52] req[7-1-2-53] req[7-1-2-54] req[7-1-2-56] req[7-1-2-66] req[7-1-2-66] req[7-1-2-66]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update reset process FW update reset process FW update reset process FW update of processing Port operation for power retention LED port setting processing Key port acquisition process FW port setting processing Key port acquisition process FW update on processing FPORT setting processing UED port s	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform neset flag setting Perform IN update main loop Perform FW update reset process Perform FW update reset process Perform FW update reset processing Perform FW update reset processing Perform port operation for power retention Perform EN update reset processing Perform port operation for power retention Perform port operation for power retention Perform serial communication main processing Perform serial communication main processing Perform serial communication Perform serial communication Perform serial communication stop Perform serial communication stop Perform serial communication stop Perform serial communication stop Perform perform	2. Perform main loop processing. 1. Got the mode ewithing result. 2. Return the mode switching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing, several may be a successful, update the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. Indisable the result flag. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Indisable the result flag. 3. Return the result flag. 4. Assign the result of companing the received SUM value and the calculated SUM value to the result flag. 5. Return result flag. 6. If the LED mode flag is DILE, get LED1-ON, LED2-OFF, LED3-OFF, LED3-OFF	
into the terminator save buffer and set the reception completion flag to ON. 6. If the FVI wearite command processing flag is false and the received data is the end character, substitute the received data into the terminator save buffer and set the reception completion flag to ON. Reply processing to PC Perform reply processing to PC 1. Perform data transmission processing. 2. Perform data transmission end processing. Data transmission end processing 1. Assign the initial value to the receive counter. 2. Assign the initial value to the receive completion flag.	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-45] req[7-1-2-45] req[7-1-2-46] req[7-1-2-46] req[7-1-2-51] req[7-1-2-51] req[7-1-2-53] req[7-1-2-53] req[7-1-2-55] req[7-1-2-56]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update reset process FW update reset process FW update reset process FW update of processing Port operation for power retention LED port setting processing Key port acquisition process FW port setting processing Key port acquisition process FW update on processing FPORT setting processing UED port s	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform neset flag setting Perform IN update main loop Perform FW update reset process Perform FW update reset process Perform FW update reset processing Perform FW update reset processing Perform port operation for power retention Perform EN update reset processing Perform port operation for power retention Perform port operation for power retention Perform serial communication main processing Perform serial communication main processing Perform serial communication Perform serial communication Perform serial communication stop Perform serial communication stop Perform serial communication stop Perform serial communication stop Perform perform	2. Perform main loop processing. 1. Got the mode evwitching result. 2. Return the mode switching result. 1. Bit the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing, perform the following processing. 2. Erases FLASH and get the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. Intrinsical secretary of the write data size. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Intrinsical the result flag. 3. Return the result flag. 4. If the LED mode that size is less than the write data size, perform 3 and 4. 2. Intrinsical the result flag. 5. Calculater the SUM value of the rewritten FW. 5. Calculater the SUM value of the rewritten FW. 5. Return result flag. 6. If the LED mode flag is DLE, set LED1-0F, LED2-0FF, LED2-0FF. 6. If the LED mode flag is DLE, set LED1-0F, LED2-0FF, LED3-0FN. 6. If the LED mode flag is DLE, set LED1-0FF, LED2-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED2-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED2-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED2-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED mode flag is WRITE, set LED1-0FF, LED3-0FF, LED3-0FN. 6. If the LED3 mode flag is WRIT	
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req[7.1-2-66] 2. Assign the initial value to the receive completion flag.	req[7-1-2-43] req[7-1-2-44] req[7-1-2-44] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-46] req[7-1-2-50]	Mode switching FW update pre-start processing FW update pre-start processing FW rewrite FW rewrite FW rewrite FW rewrite finished LED control LED mode set Reset flag setting 10msec caliback FW update main loop FW update main loop FW update reset process FW update reset process FW update on processing Port operation for power retention LED port setting processing Key port acquisition process Fort setting processing for LCD Serial communication main processing Start serial communication UARTS Receive buffer setting processing for receiving in the next 1 Social communication UARTS Receive buffer setting processing for receiving the next 1 Serial communication Start serial communication UARTS Receive buffer setting processing for receiving internal receive interrupt processing	Perform FW update pre-start processing Perform FW rewrite Perform FW rewrite Perform FW rewrite finished Perform LED control Perform LED mode set Perform reset flag setting Perform 10msec callback Perform FW update reset process Perform FW update reset process Perform FW update reset processing Perform serial processing Perform serial communication main processing Perform serial communication main processing for LCD Perform serial communication main processing for Localization the next 1 bids Perform berk serial rememission status Perform serial receive buffer setting processing for Localization then sext 1 bids Perform beck serial rememission status Perform serial receive interrupt processing	2. Perform main loop processing. 1. Got the mode eveniching result. 2. Return the mode eveniching result. 3. Return the mode eveniching result. 1. If the data size is greater than 0 and the data size is divisible by the rewriting size, perform the following processing. 3. Erases FLASH and gat the result. 4. Perform WDT restart. 5. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. If the result is successful, update the rewrite start address, data size, SUM value buffer, and rewrite data size. 6. Return result flag. 1. Rewrite the FLASH memory and get the result. 2. I rewriting is successful, and the write data size. 3. Return the result. 1. If the receive data size is less than the write data size, perform 3 and 4. 2. Initiatize the result flag. 3. Calculates the SUM value of the rewritten FW. 4. Assign the result of comparing the received SUM value and the calculated SUM value to Summary and the second size of the seco	
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req[7-1-2-67]	Data transmission process	Perform data transmission process	Perform UART5 transmission processing.	
req[7-1-2-68]	Watchdog timer restart	Perform watchdog timer restart	Restart WDT.	
real7-1-2-691	Sensor MCU 10 msec acquisition	Acquire sensor MCU 10 msec switching flag	1. 10 msec Returns the switching flag.	
Teq[/-1-2-03]	processing of switching flag			
	Sensor MCU FW rewriting 10 msec interrupt processing	Perform sensor MCU FW rewriting 10 msec interrupt processing	When the count timer is not 0, the count timer is counted down. Read the pressed state of the key.	
req[7-1-2-70]			Create an event for ZIPC of key.	
	Sensor MCU FW rewrite processing	Perform sensor MCU FW rewrite processing	When the sensor MCU FW rewrite execution flag is ON and the FRAM write start flag is	
			the following processes 2 to 13 are executed.	
			Reset the watchdog timer. Stop SPI of dedicated function.	
			Stop SY or dedicated function. Stop each SCI.	
req[7-1-2-71]			Stop IIC of dedicated function. Stop CMT2 interrupt.	
			7. Reset the watchdog timer.	
			Perform main loop processing.	
			Reset the watchdog timer. When the rewriting program is started, the Reary command for rewriting FW is output.	
			11. Stop communication.	
	Sensor MCU FW rewrite start	Perform sensor MCU FW rewrite start processing	Reset the watchdog timer. Turnon sensor MCU FW rewrite end flag.	
req[7-1-2-72]	processing	renorm sensor wco rvv rewrite start processing	11. Tumon sensor wco PW Tewnite end mag.	
req[7-1-2-73]	Sensor microcomputer FW rewrite	Perform sensor microcomputer FW rewrite mode flag	Assign the request flag to the FW rewrite mode flag.	
	mode flag setting processing Sensor microcomputer FW rewrite	setting processing Perform sensor microcomputer FW rewrite mode flag	Return the FW rewrite mode flag.	
req[7-1-2-74]	mode flag acquisition processing	acquisition processing		
	BaudRateSet command	Perform BaudRateSet command transmission	Set delay time acquisition ID.	
		processing	Send BaudRateSet command frame. If the result of the reception end wait process is time-out or error, the result is	
req[7-1-2-75]			abnormally ended.	
			 If there is no abnormality in the reception end wait processing, the result is normally ended. 	
			5. Return results.	
	BlockBlankCheck command	Perform BlockBlankCheck command transmission	Set delay time acquisition ID.	
rea[7-1-2-76]		processing	Send a BlockBlankCheck command frame. If the result of the reception end wait process is time-out or error, the result is abnormally.	
			ended.	
	BlockErase command	Perform BlockErase command transmission	Return results. 1. Set delay time acquisition ID.	
	Dioxerase command	processing	Send a BlockErase command frame.	
req[7-1-2-77]			 If the result of the reception end wait process is time-out or error, the result is abnormally ended 	
			4. Return results.	
	CheckSum command	Perform CheckSum command transmission	Set delay time acquisition ID.	
req[7-1-2-78]		processing	 Send CheckSum command frame. If the result of the reception end wait process is time-out or error, the result is abnormally 	
			ended.	
	Programming command step.1	Perform programming command (1) command	Return results. 1. Set delay time acquisition ID.	
	rogramming command step.	transmission processing	Programming command (1) Send command frame.	
req[7-1-2-79]			 If the result of the reception end wait process is time-out or error, the result is abnormally ended 	
			Return results.	
	Programming command step.2	Perform programming command (2) command transmission processing	Set delay time acquisition ID. Programming command (2) Send command frame.	
req[7-1-2-80]		manamasium processing	 Programming command (2) Send command frame. If the result of the reception end wait process is time-out or error, the result is abnormally 	
			ended.	
	Programming command step.3	Perform programming command (3) command	Return results. Set delay time acquisition ID.	
		transmission processing	Programming command (3) Send command frame.	
req[7-1-2-81]			If the result of the reception end wait process is time-out or error, the result is abnormally ended.	
			Return results.	
	Reset command	Perform Reset command transmission processing	Set delay time acquisition ID. Send the Reset command frame.	
req[7-1-2-82]			 Send the Reset command frame. If the result of the reception end wait process is time-out or error, the result is abnormally 	
			ended.	
	Calculating SUM value of 16 bit	Calculate the SUM value of 16 bit command	Return results. Calculate SUM value of 16 bit command.	
req[7-1-2-83]	command		Returns the SUM value.	
req[7-1-2-84]	Calculating SUM value of 8 bit command	Calculate the SUM value of 8 bit command	Calculate SUM value of 8 bit command.	
-	Delete until last block	Perform deletion processing until the last block	Add the rewritable minimum value to the start block address.	
req[7-1-2-85]			2. When the start block address is larger than the value obtained by adding 1 to	
			the write end address, the result is set to TRUE. 3. Return results.	
req[7-1-2-86]	ACK check	Perform ACK check processing	If the receive buffer is ACK, set the result to TRUE.	
req[/-1-2-86]			 2. Return results.	

	Reception request	Return reception request	When the SCI reception flag of RL78 is TRUE, the result is set to FALSE. Set the SCI reception flag of RL78 to TRUE.	
req[7-1-2-87]			Set the number of data received by SCI9 to 0. Put the reception amount in the received data length of SCI9.	
			Put the receive buffer in the receive buffer address of SCI9.	
	Status/frame reception request	Perform status/frame reception request processing	Return results. If the reception request processing has failed, the result is abnormally ended.	
req[7-1-2-88]	Transmission request	Perform transmission request processing	Return results. When the SCI reception flag of RL78 is TRUE, the result is set to FALSE.	
	Transmission request	Perform transmission request processing	Set the SCI reception flag of RL78 to TRUE.	
req[7-1-2-89]			Put the reception amount in the transmission data length of SCI9. Put the receive buffer in the send buffer address of SCI9.	
	Command/frame transmission	Perform command/frame transmission request	Return results. 1. Set transmission buffer.	
req[7-1-2-90]	request	processing	Calculate SUM value of 8 bit command. Reset watchdog timer if transmitting.	
	Data frame transmission request	Perform data frame transmission request processing	If the data byte is 0, set the data byte to 256. Set transmission buffer.	
req[7-1-2-91]			Calculate SUM value of 8 bit command. If the last frame is TRUE, put the ASCII_ETX into the send buffer.	
	Restart communication driver	Perform restart communication driver	Reset watchdog timer if transmitting. Stop IIC on SCI9 and stop communication driver.	
req[7-1-2-92]	Restait communication driver	Perform restart communication driver	Initialize the setting of SCI9.	
rod[, , r or]			Set control register. Start UART of SCI9 and start communication driver.	
	Communication method data transmission	Perform data transmission process of communication method	Set the TOOL0 pin to LOW. When the number of UART lines is 128, set the TOOL 0 pin to HIGH.	
req[7-1-2-93]			Perform nop processing. Reset the watchdog timer.	
	Update wait time	Perform update processing of wait time	Set the minimum wait time.	
req[7-1-2-94]			Set the time required for data transmission / reception. Set the time taken to receive the next command.	
	Wait processing	Perform wait processing	Set the time to timeout. Perform nop processing.	
req[7-1-2-95]			Reset the watchdog timer.	
real7-1 2 0e1	Wait for reception end	Perform reception end wait processing	Perform nop processing. Reset the watchdog timer.	
req[7-1-2-96]			If the SCI reception flag of RL78 is not TRUE, the result is normally ended. Return results.	
req[7-1-2-97]	Target power OFF	Sensor unit power OFF	Stop supplying the SCI line. Suspend the power supply of the sensor unit.	
	Block rewrite	Perform block rewrite processing	Calculate SUM value of 16 bit command.	
			Rewrite in the order of 1st frame and 2nd frame. When the 1st frame and 2nd frame can be rewritten normally, the last frame is rewritten.	
req[7-1-2-98]			If the rewrite fails in one of the 1st frame, the 2nd frame, and the last frame, set the result to FALSE.	
			5. Return results.	
	Setting the start block	Perform setting process of start block	When the start block address is larger than the write end address, the result is set to FALSE.	
req[7-1-2-99]			Put the start block address in the current block top address. The divided data counter is set to 1.	
			Return deletion processing until the last block. Return results.	
	Start rewrite program	Start processing of rewriting program	Set the waiting time to 0. 75.	
			Turnoff the target. Configure each port.	
			Send communication mode data. Restart communication driver.	
req[7-1-2-100]			Set delay time acquisition ID. Set the baud rate.	
			Update standby time.	
			Make the result TRUE. Return results.	
	Power OFF history record	Perform power OFF history record	Set the time buffer. When the power is off, the logger is ended.	
			Record the interval trend trailer.	
req[8-1-1-1]			Check the maximum number of alarm event records. Check fault event record maximum number.	
			Check the maximum number of calibration history records. Power ON/OFF setting history Check the maximum number of records.	
	Power ON history record	Perform power ON history record	Check the setting change record maximum number. 1. Set the time buffer.	
	r ower ore rustory record	renorm power Ort history record	Set mode elapsed seconds count to 0.	
req[8-1-1-2]			Create data. Write to the power ON/OFF setting history area.	
			Cancel the logger error state. Update Ponta of Failure.	
req[8-1-1-3]	Default processing of FRAM data for data_logger.c	Perform default processing of FRAM data for data_logger. c	Set FRAM data for data_logger. c to the default state.	
req[8-1-1-4]	Stopped state set	Perform setting of the function stop state	Set the function stop state.	
req[8-1-1-5]	Power ON/OFF history creation	Create power ON/OFF history	Check the logger pointer status. Confirm logger face information.	
1	Power ON/OFF record maximum	Check power cumply ON/OFF see and	Set the in-page record count to 2.	
req[8-1-1-6]	Power ON/OFF record maximum number check	Check power supply ON/OFF record maximum number	If the number of record keeping is equal to or less than the number of power ON/OFF setting data, check the maximum number of power ON/OFF setting records.	
-	Write to power ON/OFF area	Write to the power ON/OFF area	Flash erase. If the maximum number of power ON/OFF settings and the number of power.	
req[8-1-1-7]			ON/OFF setting data are not equal, write to the power ON/OFF setting area.	
			A Vita and	
	Add to power supply area	Add to power supply area	 If the number of power ON/OFF setting data is not the maximum power ON/OFF setting number, write the specified byte to FLASH. 	
req[8-1-1-8]				
	Logger function power supply log	Perform logger function power supply log clear	Return logger power event clear flag.	
req[8-1-1-9]	clear clear end processing	end processing		
req[8-1-1-10]	Logger function power supply log clear processing	Perform logger function power supply log clear processing	 When the logger power event clear flag is ON and the power logger has not been cleared, turn off the logger power event clear flag. 	
	Power supply stop processing of logger	Perform power supply stop processing of logger	If an error does not occur while executing the logger, make the result into execution. If an error occurs during logger execution, update FRAM and end the result as	
req[8-1-1-11]			 If an error occurs during logger execution, update FRAM and end the result as completion. Return results. 	
req[8-1-1-12]	Logger power supply activation	Perform logger power supply activation processing	Return results. Record power ON history.	
	processing Power supply for logger function	Power supply of logger function perform logger	Turn logger power event clear flag ON.	
req[8-1-1-13]	Logger clear start processing	clear start process		
req[8-1-2-1]	Logger comparison processing	Perform logger comparison processing	Compare logger numbers.	
	Sector erase processing of	Perform sector erase processing of logger FLASH	Delete the following addresses 2 to 7 in order.	
	logger FLASH	,	Alarm trend address. Power ONOFF address.	
req[8-1-2-2]			Alarm event address.	
			Failure event address. Calibration history address.	
	Logger flash status read processing	Perform status readout process of logger flash	Setting change address. Read the status of the logger flash.	
req[8-1-2-3]	processing	rogger mann		
	Confirm whether it is a leap year	Confirm whether it is a leap year or not	Confirm whether it is a leap year or not.	
rea[8-1-2-4]	or not	1		
req[8-1-2-4]	Gas result summary of interval trend	Summarize gas results of interval trend	Summarize gas results of interval trend.	
		Summarize gas results of interval trend	Summarize gas results of interval trend.	
req[8-1-2-4]		Summarize gas results of interval trend	Summarize gas results of interval trend.	

	Logger confirmation	Confirm each logger	 Set the time buffer. Count up mode elapsed seconds count.	
1			When the mode is the operation mode, the following processes 4 to 8 are executed. Get mode status.	
			5. Copy buffer. 6. Buffer the current mode.	
			7. Set mode elapsed seconds to 0. 8. Append to power supply area.	
			9. When the mode is the standby mode, the processing setting in the standby state of	
req[8-1-2-6]			the following 10 to 11 is set. 10. Recording standby at power on. 11. Wait for leave to start	
1			Wait for logger to start. When the mode is the logger restart mode, start the logger after stopping.	
			 When the logger is running or stopped, set the processing in the following 14 to 18 states and events. 	
			14. At the time of interval. 15. On operation event.	
			16. At alarm event. 17. On fault event.	
	Logger start	Start each logger	Sector erase execution standby. Update the measurement logger count of FRAM.	
	Logger start	Cian cash logger	Initialize the previous alarm status. Initialize the previous fault status.	
			Initialize the number of logger data. Initialize page address.	
			Initialize page acuress. Initialize the number of alarms. Initialize the average concentration integrated value of the interval interval.	
req[8-1-2-7]			Record the time taken for processing.	
			10. Initialize cycle time at final write.	
			Initialize the average temperature. Set auto recording interval.	
	Logger stop	Stop each logger	Create and record an interval header. Set the time buffer.	
			Fill the page. Record the alarm trend header.	
req[8-1-2-8]			End the interval. After writing the trailer, clear the running status and stop.	
	Copy n bytes	Perform n byte copy	Return processing step+P884.	
req[8-1-2-9]	Copy II bytes	Periorii ii byte copy	1. Copy n bytes.	
req[8-1-2-10]	Header code change	Change header code	Change header code.	
reu[o-1-2-10]	Concentration value or full scale	Perform minus over setting	If the concentration value is already DDDD value or FEFE value, do not do anything.	
req[8-1-2-11]	+ 1 digit		2. If the minus flag is ON, it returns minus over. 3. When the minus flag is OFF, it returns over.	
	Logger huffering, page conflow in	Perform longer buffering		
req[8-1-2-12]	Logger buffering, page overflow is FLASH, pages less than RAM	Perform logger buffering	Return specified byte write processing to FLASH.	
req[8-1-2-13]	Start measurement of interval trend sector erase avoidance	Perform measurement of interval trend starts sector erase avoidance	 If it is not the last page, move on to the next page. In case of overwrite setting, return to the beginning.	·
reu[o-1-2-13]			 In the case of the 2nd page of the block top page including the measurement starting page, wait until it becomes full. 	
	Gas specification in header	Perform setting process of gas specification in header	If it exceeds 50000 ppm with 1 st alarm, 2 nd alarm, 3 rd alarm, STEL warning, TWA alarm, set it as concentration code.	
req[8-1-2-14]			Record the calibration history of the flammable gas and the bump history with the gas name that is not read.	
1			Copy variables and create character data.	
<u> </u>	Sensor invalid data of interval trend	Perform processing to return sensor invalid data of	Return output string. Copy variables.	
req[8-1-2-15]		interval trend	Return initial fault / function OFF data. Return output string.	
req[8-1-2-16]	Sensor OFF data of interval trend	Perform processing to return sensor OFF data of interval trend	Copy variables. Return sensor OFF data.	
. odlo . o . ol	Logger header record for trends		Return output string.	
req[8-1-2-17]	ggo rouser receip for treffus	Perform logger header recording for trend	If the data type is an alarm trend, fill the page and write it in the alarm trend header area. Otherwise write to the interval area.	
 	Create logger header data	Create each logger header data	Otherwise, write to the interval area. Create logger header data of the following data type 2 -9	
			2. interval. 3. bar.	
req[8-1-2-18]			4. Alarm trend. 5. Alarm event.	
			Failure event. Proofreading.	
			BUMP. Returns the number of bytes.	
	Confirm measurement cycle	Perform measurement cycle check	Check interval time elapsed When the interval trend cycle is equal to or less than the logical time seconds processed	
			last in the measurement cycle, interval data is recorded or counted up, and the average	
req[8-1-2-19]			concentration integration value of the interval interval is initialized. 3. Otherwise, it is added to the average concentration integrated value of the interval.	
	Interval event recording	Record interval events	If the log is not full, create the data and write it to the interval area.	
req[8-1-2-20]				
	Interval event creation	Create an interval event	Copy variables and create interval events.	
req[8-1-2-21]	marta oran oraniari	ordate de material over	2. Returns the number of output bytes.	
.eq[0-1-2-21]				
rea[8-1-2-22]	Acquisition of next page of interval	Acquire next page of interval	If it is not the last page, move on to the next page.	
	Fill page in the interval area	Perform page filling in the interval area	In case of overwrite setting, return to the beginning. Check remaining amount on page.	
req[8-1-2-23]			If it is not full, acquire the next page and turn on the FRAM write start flag.	
req[8-1-2-24]	Interval trend data recording	Recording interval trend data	Create data. Write to the interval area.	
-	Create interval trend data	Create interval trend data	Copy variables and create interval trend data.	
req[8-1-2-25]			Returns the number of output bytes.	
	Interval temperature data creation	Create interval temperature data	Copy variables and create interval temperature data.	
req[8-1-2-26]	,		Returns the number of output bytes.	
	Male to the interest	Write to the interval area	1. If the page after writing matches the page size obtain the	
1	Write to the interval area	Write to the interval area	If the page after writing matches the page size, obtain the next page. Turnon FRAM write start flag.	
			If the successive flash write fault count is 0, turn on the first data write flag. When the number of logger channels is less than the maximum number,	
req[8-1-2-27]			record the cycle time at the time of writing. 5. Erase the next page.	
1				
req[8-1-2-28]	Time buffer set	Perform time buffer set	Set the time buffer.	
req[8-1-2-28]	Concentration code over 50000 ppm	Display concentration code when concentration is	If the concentration value is greater than 50000 ppm, return the concentration code.	
	Round with digits	50000 ppm or more Round with digits	If the concentration value is less than 50000 ppm, return the concentration value. Round with digits.	
req[8-1-2-30]	Logger error state set	Perform logger error state set processing	Returns the rounded concentration in digits. Distinguish loggers where errors occurred.	
1	gga and state set		1. Distinguish loggers where errors occurred. 2. Erase the flash with the main unit error, and write error. 3. Erase error, Interval overwritten only error, Errors all others.	
req[8-1-2-31]			4. Log an error.	
1			5. Set main unit error status. 6. Get status.	
<u> </u>	Setting change record maximum	Check the setting change record maximum number	Log an error. If the record keep count is less than or equal to the set change data count,	
1	number check		the maximum number of setting change data is checked. 2. Flash erase.	
req[8-1-2-32]			Count up successive flash write faults. Delete setting change address to erase incomplete address.	
req[8-1-2-32]				
req[8-1-2-32]	Interval stop	Stop the interval	1. When the processing state is 0, forced recording is performed and the processing state is	
req[8-1-2-32]		Stop the interval	When the processing state is 0, forced recording is performed and the processing state is set to 1. When the processing state is 1 and the flash size and the erase incomplete address do	
		Stop the interval	 When the processing state is 0, forced recording is performed and the processing state is set to 1. When the processing state is 1 and the flash size and the erase incomplete address do not match, the result of the status read processing of the log flash is acquired and the processing state is set to 2. 	
req[8-1-2-32]		Stop the interval	1. When the processing state is 0, forced recording is performed and the processing state is set to 1. 2. When the processing state is 1 and the flash size and the erase incomplete address do not match, the result of the status read processing of the log flash is acquired and the processing state is set to 2. 3. If the processing state is 2 and the measurement type is normal or inert, record the trailer of the interval trend and set the processing state to 3.	
		Stop the interval	1. When the processing state is 0, forced recording is performed and the processing state is set to 1. 2. When the processing state is 1 and the flash size and the erase incomplete address do not match, the result of the status read processing of the log flash is acquired and the processing state is and to 2. 3. The processing state is and to 2. 4. When the interval tred and set the processing state is 4. 4. When the processing state is 3, processing similar to processing state 10. 3. When the processing state is 4. b. When t	
	Interval stop		1. When the processing state is 0, forced recording is performed and the processing state is set to 1. 2. When the processing state is 1 and the flissh size and the erase incomplete address do not match, the result of the status read processing of the log flissh is acquired and the processing state is 2 and the measurement type is normal or next, record 3. If the processing state is 2, and the measurement type is normal or next, record 4. When the processing state is 3, processing similar to processing state is is executed. 5. When the processing state is 4, the page filling and processing state of the interval area is set to 5. 6. When the processing state is 5, processing similar to processing state 1 is executed.	
		Stop the interval Perform trailer recording of interval trend	1. When the processing state is 0, forced recording is performed and the processing state is set to 1. 2. When the processing state is 1 and the flash size and the erase incomplete address do not match, the result of the status read processing of the log flash is acquired and the processing state is set to 2. 3. If the processing state is 2 and the measurement type is normal or inert, record the trailer of the interval trend and set the processing state to 3. 4. When the processing state is 3, processing straile to 3. 5. When the processing state is 4, the page filling and processing state of the interval area is set to 5.	

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req[8-1-2-35]	Create trailer of interval trend	Create trailer of interval trend	Copy variables and create interval temperature data. Returns the number of output bytes.	
	Interval data storing or counting up	Perform interval data storing or counting up	I. When the integrated concentration for the average concentration for the interval interval is larger than 0, the average concentration of the interval interval is calculated. 2. When the forced recording flag satisfies the following conditions 3 to 5, the average concentration of the interval interval is acquired and the number of data.	
req[8-1-2-36]			the average cuncellation or the interval mileave is adoptive and the number of data is counted up and the elapse of the automatic recording time is confirmed. 3. Invalid flag is ON. 4. Continuation judgment of sensor OFF is OFF. 5. The number of data is 0. 6. When the number of data is other than 0, record interval trend data.	
			7. When the forced recording flag is OFF, carry out the following procedures 8 to 9. 8. Acquire the average concentration of the interval interval. 9. Set the number of data to 1. 10. Recording interval trend data.	
req[8-1-2-37]		cancel logger error condition Return 2 byte integer as CHAR pointer by byte	Count up the number of logger data. Cancel the logger error state. Convert 2 - Super integer to a CHAR pointer in byte order specification and place it	
req[8-1-2-38]	Return 2 byte integer as CHAR pointer by byte order specification Convert to days since 1/01/2000	Return 2 byte integer as CHAR pointer by byte order specification Convert to days since 1/01/2000	in the return buffer. 2. Return return buffer. 1. Confirm there is no abnormality on the current month.	
req[8-1-2-39]	Find the time difference in seconds	Find the time difference in seconds	2. Calculate the number of days in a month. 3. 365 is added to the number of days calculated in 2. 4. Return days. 1. Calculate the number of seconds.	
req[8-1-2-40]	Convert to seconds since 00:00:00	Convert time to seconds	2. Calculate the number of days. 3. Calculate the time difference. 4. Return time difference. 1. Acquire seconds.	
req[8-1-2-41]			Get minute and convert it to second. Get time and convert to seconds. Returns the sum of 1, 2 and 3.	
req[8-1-2-42]	Convert to seconds since 2000/01/01 00:00:00	Convert to seconds from 2000/01/01 00: 00: 00	 To the number of days since 2000/01/01 is multiplied by the value obtained by adding 86400 to the conversion processing to the number of seconds since 00:00:00 in the conversion processing. Return results. 	
req[8-1-2-43]	Logger wait state unset	Perform logger wait state unset processing	Set the status. Set the standby state to be in the logger state during initialization. Hithere is assignment to the corresponding port number of the channel, the following	
req[8-1-2-44]	Measurement upper limit value data creation for MINUS alarm point	Performs measurement upper limit value data creation processing for MINUS alarm point	processes 2 to 4 are executed. 2. Retrieve the assigned number. 3. MINUS alarm point measurement upper limit value as concentration code. 4. Add 2 to the number of data bytes.	
req[8-1-2-45]	Clear PEAK of logger function	Perform PEAK clear processing of logger function	 Returns the number of data bytes. Clear peak value.	
req[8-1-2-46]	1 sec cycle confirmation processing of logger function	Perform 1 sec cycle confirmation processing of logger function	 Confirmation at the time of abnormal stop of logger function and action to be taken. Confirm logger.	
req[8-1-2-47]	Lunch break flag substitution processing of logger function	Perform lunch break flag substitution processing of logger function	When the ON/OFF setting flag is ON, the lunch break flag is turned on. When the ON/OFF setting flag is OFF, the lunch break flag is turned off.	
req[8-1-2-48]	Start processing of logger interval Stop processing of logger interval	Perform start processing of logger interval Perform stop processing of logger interval	 Start logger is stopped, make the result stop. If the logger is not stopped, if you stop the result. Return results.	
	Check logger function abnormal stop processing	Perform check logger function abnormal stop processing	Make the status system malfunctioning. When the following conditions 3 to 5 are satisfied, error count processing is not performed.	
			3. It is in measurement or display mode. 4. The logger is moving. 5. Roga is a fault to recover. 6. When overwriting.	
req[8-1-2-50]			7. If the error count is greater than or equal to the logger forced startup time during the measurement / display mode, execute the following processing 8 to 13. 8. Reset error count.	
			9. Update the PEAK value to the current value. 10. Initialize accumulated area, average value. 11. Initialize STEL value and TWA value. 12. Turnoff the resume flag.	
req[8-1-2-51]	Operation confirmation processing	Perform operation confirmation processing of	13. Start logger measurement. 1. If the status is running, make the result run. 2. Return results.	
	of logger function Alarm storing start	logger function Perform alarm storing start processing		
req[8-1-4-1]			the alarm header page pointer is initialized. 6. If the enase incompletion address matches the flash size, execute the following processing 7 to 40 fress in erase incomplete address. 7. Put alarm trend address in erase incomplete address. 8. Erase the sector of the loga FLASH.	
			B. Crase in the Section of the	
	Alarm quant storing	etara alarm quant	14. Initialize peak measurement value for 5 seconds. 15. Initialize the minus flag of the peak measurement value for 5 seconds. 16. Get peak temperature for 5 seconds.	
req[8-1-4-2]	Alarm event storing Alarm event confirmation	store alarm event Confirm each alarm event	Create a header. Create data. Write to the alarm event area. When the following conditions 2 to 4 are satisfied, an alarm event is recorded.	
req[8-1-4-3]			2. The event that occurred is a new event. 3. It is not a minus alarm. 4. It is an alarm other than CO_H2cancellation. 5. In the case of a minus alarm, only the interval event is recorded.	
			During interval 7 to 8 below, record interval event. At warning return. At temperature warning.	
req[8-1-4-4]	Create alarm event	Create alarm event	Copy variables and create alarm events.	
req[8-1-4-5]	Alarm event storing maximum number check	Check the alarm event storing maximum number	If the record keep count is less than or equal to the warning event record, check the maximum number of warning event records.	
	Write to the alarm event area	Write to the alarm event area	Flash erase. If the number of alarm event data is not full, write to the alarm event area.	
req[8-1-4-6]				
req[8-1-4-7]	End alarm trend header record	Record the alarm trend header at the end	 Record the alarm trend header at the end.	
req[8-1-4-8]	Write to the alarm trend header area	Write to the alarm trend header area	Write at the end of trend recording or power off.	
req[8-1-4-9]	Confirm storing cycle after warning	Confirm storing cycle after warning	When 5 seconds have elapsed, peak initialization is performed for 5 seconds and processing time is recorded. If 5 seconds have not elapsed, check the peak for 5 seconds and calculate the temperature value.	
			When alarm trend recording is completed, record the header.	
	Confirm storing cycle before alarm	Confirm storing cycle before alarm	When 5 seconds have elapsed, data is recorded in the continuous storage area. Also, record the peak initialization processing time for 5 seconds.	
req[8-1-4-10]			If 5 seconds have not elapsed, check the peak for 5 seconds and calculate the temperature value.	
	Header record confirmation	Confirm header record	Record trend logger headers. Acquire the next writing position from the top of the page.	
			A. Acquire warning header page pointer. A. Acquire date and time of release. S. Acquire data counter after warning. Acquire data copy number before alert.	
req[8-1-4-11]			Acquire data copy name beare alert. Acquire data copy page number before alert. Acquire data copy page number before alert. Acquire data copy position before alert. Acquire data code before alern. 10. Acquire peak measurement value for 5 seconds. 11. Acquire peak measurement value for 5 seconds.	
			Acquire the minus hag of the peak measurement value for 5 seconds. Count up the number of alarms being processed.	

	Copy data before alarm occurrence to alarm trend area	Copy data before alarm occurrence to alarm trend	Acquire remaining copy count. If the remaining copy count is not less than the trend record, multiply the trend record	
	to alam trend area	area	with the size of the alarm trend record gas part + minus flag	
			When the report point temporary data pointer is 0, put the value 1st from the length of the alarm provisional data area into the report point temporary data pointer.	
req[8-1-4-12]			Update copy number.	
			Acquire the head code when FLASH recording of tentative trend. Fill remaining page of record record.	
			Fill remaining page of record record. Count up data copy page number before alert.	
	Create alarm trend data	Create alarm trend data	Create code. Create gas data.	
			Create temperature data.	
			4. Create minus flag.	
req[8-1-4-13]			5. Adjust to 16 bytes in all.	
	Embedding alarm trend area	Embed an alarm trend area	If flash write fault is 0, embed page 0x00 with address at the top of the page.	
			If the flash write fault is not 0, fill the page with 0x00 with the address at the top	
req[8-1-4-14]			of the page. 3. Count data counters after warning.	
			•	
-	Write to the alarm trend area	Write to the alarm trend area	If flash write fault is 0, embed page 0x00 with address at the top of the page.	
	White to the diam bend and	Trito to the dain trend drea	If the flash write fault is not 0, fill the page with 0x00 with the address at the top	
			of the page. 3. Set the next writing position from the top of the page to 0.	
req[8-1-4-15]				
	Data storing to continuous storage area	Data storing to continuous storage area	Acquire alarm trend data creation processing. Alarm trend record Place the size of the gas part + minus flag in the alert point.	
req[8-1-4-16]			temporary data pointer.	
			When the report point temporary data pointer matches the length of the alarm provisional data region length, the alert point temporary data pointer is set to 0.	
	Fault event storing	Store fault events	Set the number of simultaneous occurrences to 1.	
			Acquire logger header data creation processing. Calculate the limit number of fault events without header.	
			Acquire fault event creation processing.	
req[8-1-5-1]			Write to the fault event area. If the successive flash write fault count is greater than 1, perform the following	
			processing 7 to 9.	1
			Set the logger error status. Count up the number of fault event data.	Į l
			 Turnon FRAM write start flag.	
	Fault event confirmation	Confirm fault event	 For initial sensor error, record only during initialization. Record fault events.	
			Record interval events.	
req[8-1-5-2]			Record invalid flag and concentration up to sensor abnormality. Record interval events during operation of 6 to 7 below.	
			When returning from flow rate.	1
			7. When returning from pump error.	Į l
	Failure event creation	Create fault event	Acquire detailed data of faults.	
			Acquire battery voltage.	
			Acquire the A/D value of all sensors and create character data. Set the processing at the time of abnormality with the following indexes 5 to 8.	
req[8-1-5-3]			5. O2 index.	
			6. H2S index. 7. CO index.	
			8. EC Index.	
	Foult avent record maximum	Charle the maries on a combar of facility areast seconds	Returns the number of output bytes. If the number of record holding is equal to or less than the number of fault event data,	
ren[9.1.5.41	Fault event record maximum number check	Check the maximum number of fault event records	the maximum number of fault event data is checked.	
req[8-1-5-4]			2. Flash erase.	Į
	Write to the fault event area	Write to the fault event area	If the number of fault event data is not full, write to the fault event area	
			Count up successive flash write faults. When the number of simultaneous occurrences is 1, the following processes 4 to 5 are	
req[8-1-5-5]			carried out.	
			Count up the number of fault event data. Turnon FRAM write start flag.	
	BUMP test record	Perform recording of BUMP test	Set the time buffer.	
			Acquire the SDM serial number used for BUMP.	
			Break if there is a corresponding channel on the port. High BUMP test is successful, obtain the bump test data creation process.	
req[8-1-6-1]			In case of the fast bump, acquire the concentration for the fast bump and the bump	
			test data creation processing. 6. Fill the page.	
			Exclude empty data with header only. Writing to the calibration history area.	
		i e		
	Calibration history record	Record the calibration history	Set the time buffer.	
	Calibration history record	Record the calibration history	Break if there is a corresponding channel on the port.	
req[8-1-6-2]	Calibration history record	Record the calibration history	Break if there is a corresponding channel on the port. If the final calibration date and time are the same, proceed with calibration fault. Acquire the final calibration date and time.	
req[8-1-6-2]	Calibration history record	Record the calibration history	Break if there is a corresponding channel on the port. If the final calibration date and time are the same, proceed with calibration fault. Acquire the final calibration date and time. Fill the page.	
req[8-1-6-2]			 2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area.	
req[8-1-6-2]	Calibration history record BUMP test data creation	Record the calibration history Create BUMP test data	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 1. If the number of simultaneous courseness is 1, copy the variable.	
			2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area.	
req[8-1-6-2]			2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 1. If the number of simultaneous courseness is 1, copy the variable.	
			2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 1. If the number of simultaneous courseness is 1, copy the variable.	
			2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude entryl data with header only. 7. Writing to the calibration history area. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. Unity UNIP judgment on measurement side. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. If the number of simulatineous occurrences is 1, copy the variable.	
req[8-1-6-3]	BUMP test data creation	Create BUMP test data	2. Break: if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Unify UMP judgment on measurement side.	
	BUMP test data creation	Create BUMP test data	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude entryl data with header only. 7. Writing to the calibration history area. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. Unity UNIP judgment on measurement side. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. If the number of simulatineous occurrences is 1, copy the variable.	
req[8-1-6-3]	BUMP test data creation	Create BUMP test data	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude entryl data with header only. 7. Writing to the calibration history area. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. Unity UNIP judgment on measurement side. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. If the number of simulatineous occurrences is 1, copy the variable. 7. If the number of simulatineous occurrences is 1, copy the variable.	
req[8-1-6-3]	BUMP test data creation Create calibration history Calibration history record maximum	Create BUMP test data Create calibration history Check the maximum number of calibration history	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude entryl data with header only. 7. Writing to the calibration history area. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history.	
req[8-1-6-3]	BUMP test data creation Create calibration history	Create BUMP test data Create calibration history	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude enter class with header only. 7. Exclude enter calibration history area. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Unity UMP judgment on measurement side. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Create calibration history. 8. Create calibration history. 8. If the number of record hodding is equal to or less than the number of calibration history data is checked.	
req[8-1-6-3]	BUMP test data creation Create calibration history Calibration history record maximum number check	Create BUMP test data Create calibration history Check the maximum number of calibration history records	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 7. Writing to the calibration history area. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Unity UMP judgment on measurement side. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked.	
req[8-1-6-3]	BUMP test data creation Create calibration history Calibration history record maximum	Create BUMP test data Create calibration history Check the maximum number of calibration history	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude enter class with header only. 7. Exclude enter calibration history area. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Unity UMP judgment on measurement side. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Create calibration history. 8. Create calibration history. 8. If the number of record hodding is equal to or less than the number of calibration history data is checked.	
req[8-1-6-3]	BUMP test data creation Create calibration history Calibration history record maximum number check	Create BUMP test data Create calibration history Check the maximum number of calibration history records	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 7. Writing to the calibration history area. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Unity UMP judgment on measurement side. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked.	
req[8-1-6-3]	BUMP test data creation Create calibration history Calibration history record maximum number check	Create BUMP test data Create calibration history Check the maximum number of calibration history records	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 7. Writing to the calibration history area. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Unity UMP judgment on measurement side. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-5]	BUMP test data creation Create calibration history Calibration history record maximum number check	Create BUMP test data Create calibration history Check the maximum number of calibration history records	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 7. Writing to the calibration history area. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Unity UMP judgment on measurement side. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked.	
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req[8-1-6-3] req[8-1-6-4] req[8-1-6-5]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area	Create BUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration history area. 7. Writing to the calibration history area. 7. If the number of simultaneous occurrences is 1, copy the variable. 7. Unity UMP judgment on measurement side. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of simultaneous occurrences is 1, copy the variable. 1. If the number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked.	
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req[8-1-6-3] req[8-1-6-4] req[8-1-6-5] req[8-1-6-6] req[8-1-6-6]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function SPAN calibration record processing of logger function Or a calibration record processing of logger function	Create BUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform SPAN calibration processing of logger function Perform SPAN calibration record processing of logger function	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration date some proceed with calibration fault. 8. Cardia empty data with header only. 9. Writing to the calibration bistory area. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Unily UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of calibration history data, the maximum number of calibration history data is checked. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record bump test. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-5] req[8-1-6-6] req[8-1-6-7] req[8-1-6-8]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fast BUMP	Create BUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform SPAN calibration record processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration date and time. 7. Writing to the calibration state and time. 8. The the page. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Unily UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of record holding is equal to or less than the number of calibration history data, the maximum number of calibration history data is checked. 7. Flash ense. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record bump test. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump. 3. Return results.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-6] req[8-1-6-6] req[8-1-6-7] req[8-1-6-9] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function Concentration substitution processing of logger function Concentration substitution processing for fast BUMP Concentration adulation processing	Create BUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration history area Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUP Perform concentration adoptisation processing for	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 6. Exclude entry data with header only. 7. When the maintaineous occurrences is 1, copy the variable. 7. Unity UNP judgment on measurement side. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Unity UNP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of care history of the variable of the variab	
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req[8-1-6-3] req[8-1-6-4] req[8-1-6-6] req[8-1-6-6] req[8-1-6-7] req[8-1-6-9] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fast BUMP Concentration acquisition processing for fast BUMP	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 6. Exclude entry data with header only. 7. Writing to the calibration date and time. 7. Writing to the calibration story area. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Record bump test. 1. Record the calibration history. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for feat bump. 2. When the result flag is a result, the result is set to the result concentration in the calibration concentration in the calibration concentration in the calibration concentration in the calibration for the feat bump.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-6] req[8-1-6-6] req[8-1-6-7] req[8-1-6-9] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function Concentration substitution processing of logger function Concentration substitution processing for fast BUMP Concentration adulation processing	Create BUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration history area Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUP Perform concentration adoptisation processing for	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 5. Fill the page. 5. Fill the page. 7. Writing to the calibration fate and time. 7. Writing to the calibration fate and time. 8. Fill the page. 8. Writing to the calibration history area. 9. Writing to the calibration history area. 9. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of calibration history of calibration history data is not full, write it in the calibration history area. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record bump test. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump. 3. Return results. 1. When the result flag is a result, the result is set to the calibration in the calibration of fast bump. 1. When the result flag is calibration, put the substitution concentration in the calibration for the fast bump. 1. When the result flag is calibration, put the substitution concentration in the calibration of the fast bump. 1. When the result flag is calibration, put the substitution concentration in the calibration of the fast bump. 1. Carry Case setting. 1. Case setting. 2. Case setting.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-6] req[8-1-6-6] req[8-1-6-7] req[8-1-6-9] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fact BUMP Concentration acquisition processing for fast BUMP Setting change confirmation	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude entry data with header only. 7. Writing to the calibration date and time. 7. Writing to the calibration belong area. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Unity UNP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked. 7. Fishs erises. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record the calibration. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump. 2. When the result flag is calibration, but the substitution concentration in the calibration concentration for fast bump. 3. Return results. 1. Ones the Boldswig settings 2 to 11. 2. Gas setting. 3. parameter settings.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-6] req[8-1-6-6] req[8-1-6-8] req[8-1-6-9]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fact BUMP Concentration acquisition processing for fast BUMP Setting change confirmation	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 6. Exclude entry data with header only. 6. Exclude entry data with header only. 7. If the number of simultaneous occurrences is 1, copy the variable. 9. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Record bump test. 1. Record the calibration history. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump. 3. Return results. 1. When the result flag is calibration, put the substitution concentration in the result concentration for flast bump. 2. If the result flag is a result, the result is set to the result concentration for flast bump. 3. Return results. 1. Oneck the following settings 2 to 11. 3. parameter settings.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-6] req[8-1-6-6] req[8-1-6-8] req[8-1-6-9]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fact BUMP Concentration acquisition processing for fast BUMP Setting change confirmation	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 6. Exclude empty data with headen ronly. 7. Exclude empty data with headen ronly. 8. Exclude empty data with headen ronly. 8. Exclude empty data with headen ronly. 8. If the number of simulateaous occurrences is 1, copy the variable. 9. Unity UNP judgment on measurement side. 1. If the number of simulateaous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simulateaous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simulateaous occurrences is 1, copy the variable. 2. Create calibration history. 3. If the number of calibration history data is not full, write a sin the calibration history data, the maximum number of calibration history data is checked. 9. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record the calibration history. 1. Record the calibration history. 1. When the result flag is ariseful, the result is set to the calibration concentration for fast bump. 2. When the result flag is a result, the the substitution concentration in the calibration concentration for fast bump. 3. Return results. 1. When the result flag is a result, the the substitution concentration in the result concentration for the fast bump. 1. Check the following settings 2 to 11. 2. Gas setting. 3. Azurn related settings. 5. Alam related settings. 6. Alam related settings.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-6] req[8-1-6-6] req[8-1-6-7] req[8-1-6-9] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fact BUMP Concentration acquisition processing for fast BUMP Setting change confirmation	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 6. Exclude empty data with header only. 7. Writing to the calibration date and time. 7. Writing to the calibration date and time. 7. Writing to the calibration story area. 7. Writing to the calibration story area. 7. If the number of simultaneous occurrences is 1, copy the variable. 8. Unily UMP judgment on measurement side. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history data, the maximum number of calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record the calibration history. 1. Record the calibration history. 1. When the result flag is a result, the result is set to the calibration concentration for fast bump. 8. Return results. 1. When the result flag is a result, the result is set to the result concentration for fast bump. 9. If the result flag is a result, put the substitution concentration in the result concentration for the fast bump. 1. Cars we related to LOD display. 5. Sensor related estings. 7. Setting related to LOD display. 8. Setting related to LOD display. 9. Setting related to Lob display.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-5] req[8-1-6-6] req[8-1-6-7] req[8-1-6-9] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fact BUMP Concentration acquisition processing for fast BUMP Setting change confirmation	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 5. Fill the page. 5. Fill the page. 7. Writing to the calibration fate and time. 7. Writing to the calibration fate and time. 8. Fill the page. 8. Writing to the calibration history area. 9. Unity UMP judgment on measurement side. 9. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of calibration history of calibration history data is not full, write it in the calibration history area. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record bump test. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump. 3. Return results. 1. When the result flag is a result, the result is set to the calibration in the result concentration for fast bump. 1. When the result flag is calibration, put the substitution concentration in the calibration of the fast bump. 1. When the result flag is calibration, put the substitution concentration in the calibration of the fast bump. 1. When the result flag is calibration, put the substitution concentration in the calibration of the fast bump. 1. Carry out air calibration with the substitution concentration in the calibration. 2. Return results. 3. Return results. 4. Cass setting. 5. Asam related a setting. 5. Asam related a setting. 5. Asam related a setting. 5. ONOCE's settings.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-5] req[8-1-6-6] req[8-1-6-7] req[8-1-6-9] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fact BUMP Concentration acquisition processing for fast BUMP Setting change confirmation	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time. 5. Fill the page. 6. Exclude entry data with header only. 6. Exclude entry data with header only. 7. If the number of simultaneous occurrences is 1, copy the variable. 9. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Unity UMP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 2. Create calibration history of the calibration history data is checked. 3. If the number of calibration history data is not full, write it in the calibration history area. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record bump test. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump. 3. Return results. 1. When the result flag is a result, the result is set to the result concentration for fast bump. 2. If the result flag is a result, but the substitution concentration in the result concentration for fast pump. 3. Return results. 1. Once the following settings 2 to 11. 3. parameter settings. 4. Settings related to LCD display. 5. Settings related to LCD display. 5. Settings related to LCD display. 5. Settings related settings. 10. Decorate Settings. 11. Looper settings.	
req[8-1-6-3] req[8-1-6-4] req[8-1-6-5] req[8-1-6-6] req[8-1-6-7] req[8-1-6-9] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fact BUMP Concentration acquisition processing for fast BUMP Setting change confirmation	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude entry data with header only. 7. Writing to the calibration date and time. 7. Writing to the calibration before year. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Unity UNP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked. 9. Fishal reads. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record the calibration history. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump. 9. When the result flag is calibration, but the substitution concentration in the calibration for fast bump. 1. Check the Boltowing settings 2 to 11. 2. Gas setting. 9. Parameter settings. 1. Setting related to Boltoms. 1. Catry out greated settings. 1. Chacker the Diversing settings 2 to 11. 2. Gas setting. 1. Password related settings. 1. Chacker the Diversing settings 4. 2. Setting related to UCD display. 5. Setting related to UCD display. 5. Setting related to UCD display. 5. Setting related settings. 1. Opens well of the pure settings. 1. Opens setting. 1. Opens setting. 2. Set the interest.	
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req[8-1-6-3] req[8-1-6-4] req[8-1-6-5] req[8-1-6-6] req[8-1-6-7] req[8-1-6-7] req[8-1-6-10]	BUMP test data creation Create calibration history Calibration history record maximum number check Write to the calibration history area AIR calibration record processing of logger function BUMP storing processing of logger function SPAN calibration record processing of logger function Concentration substitution processing for fact BUMP Concentration acquisition processing for fast BUMP Setting change confirmation	Create SUMP test data Create calibration history Check the maximum number of calibration history records Write to the calibration history area Perform AIR calibration record processing of logger function Perform BUMP storing processing of logger function Perform SPAN calibration record processing of logger function Perform concentration substitution processing for fast BUMP Perform concentration acquisition processing for fast BUMP	2. Break if there is a corresponding channel on the port. 3. If the final calibration date and time are the same, proceed with calibration fault. 4. Acquire the final calibration date and time. 5. Fill the page. 6. Exclude entry data with header only. 7. Writing to the calibration date and time. 7. Writing to the calibration before year. 8. If the number of simultaneous occurrences is 1, copy the variable. 9. Unity UNP judgment on measurement side. 1. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history. 1. If the number of simultaneous occurrences is 1, copy the variable. 9. Create calibration history data, the maximum number of calibration history data, the maximum number of calibration history data is checked. 9. Fishal reads. 1. If the number of calibration history data is not full, write it in the calibration history area. 1. Carry out air calibration. 1. Record the calibration history. 1. Record the calibration history. 1. When the result flag is calibration, the result is set to the calibration concentration for fast bump. 9. When the result flag is calibration, but the substitution concentration in the calibration for fast bump. 1. Check the Boltowing settings 2 to 11. 2. Gas setting. 9. Parameter settings. 1. Setting related to Boltoms. 1. Catry out greated settings. 1. Chacker the Diversing settings 2 to 11. 2. Gas setting. 1. Password related settings. 1. Chacker the Diversing settings 4. 2. Setting related to UCD display. 5. Setting related to UCD display. 5. Setting related to UCD display. 5. Setting related settings. 1. Opens well of the pure settings. 1. Opens setting. 1. Opens setting. 2. Set the interest.	

	Create setting change data	Create setting change data	Create the setting change data with the following settings 2 to 11. Gas setting.	
			3. parameter settings.	
			Settings related to LCD display. Second soluted authors.	
			Sensor related settings. Alarm related settings.	
req[8-1-7-2]			Setting related to expirations. Setting BUMP settings.	
			ON/OFF setting related settings.	
			Password related settings. Setting of logger setting.	
			11. Setting or logger setting.	
	Retain logger setting change for	Retain logger setting change comparison	Set below 2 to 11 setting Change hold for comparison.	
	Retain logger setting change for comparison	Retain logger setting change comparison	Set below 2 to 11 setting Change hold for comparison. Gas setting.	
			3. parameter settings.	
			Settings related to LCD display. Sensor related settings.	
			Alarm related settings.	
req[8-1-7-3]			Setting related to expirations. Setting BUMP settings.	
			ON/OFF setting related settings. Password related settings.	
			Password related settings. Setting of logger setting.	
	Write to the setting change area	Write to the setting change area	If the number of setting change data is not full, write to the setting change area.	
	3 3	5	When the specified byte write process is 0 in FLASH, the following processes 3 to 4 are executed.	
req[8-1-7-4]			Count up successive flash write faults.	
			Turnon FRAM write start flag.	
req[8-1-7-5]	Logger function setting change confirmation storing processing	Perform logger function setting change confirmation storing processing	Confirm setting change.	
	Snap data display start processing	Perform snap data display start processing	Initialize item number.	
req[8-1-8-1]			 Turnoff the numeric up / down change setting. If the snap record pointer is 0, substitute the item number with the maximum number of 	
icqio i o ij			records, otherwise substitute the snap record pointer.	
	Snap data display processing	Perform snap data display processing	Read the last page of the snap recording to determine whether there is recorded data. If the recorded data existence flag is ON, the recorded data corresponding to the item.	
req[8-1-8-2]			number is displayed. Otherwise, the fact that there is no recorded data is displayed.	
req[8-1-8-3]	Snap details display item selection processing	Perform snap details display item selection processing	Perform the following processing when the recording data presence/absence flag is ON. Perform single-tone buzzer processing.	
,	_		Toggle the item number between 0 and 1.	
req[8-1-8-4]	Snap data display item selection processing	Perform snap data display item selection processing	Perform the following processing when the recording data presence/absence flag is ON. Perform single-tone buzzer processing.	
<u> </u>	Snap data display UP/DOWN	Perform snap data display UP/DOWN selection	Increase/decrease the mode selection number according to the increase/decrease Perform the following processing when the recording data presence/absence flag is ON.	
req[8-1-8-5]	Snap data display UP/DOWN selection processing	Perform snap data display UP/DOWN selection processing	Perform single-tone buzzer processing.	
	Snap date and time display	Perform snap date and time display processing	Invert the up/down flag. Read the snap record of the record pointer position.	
req[8-1-8-6]	processing	unap date and time display processing	2. Read the recording date and time from the header information and assign it to the LCD	
	Snap concentration display	Perform snap concentration display processing	display buffer. 1. Read the snap record of the record pointer position.	
req[8-1-8-7]	processing	orași concarnation dispidy processing	2. Read out the gas information and concentration value from the recorded data and	
req[8-1-8-8]	Snap NO DATA display processing	Perform snap NO DATA display processing	substitute them into the LCD display buffer. 1. Assign the character data NO DATA to the LCD display buffer.	
	Change the concentration code back	Perform	If the density value is greater than the density code, return the value converted to the	
req[8-1-8-9]	to over 50000ppm		original density value.	
req[8-1-8-10]	Snaplog display processing	Perform	 If the density value is less than or equal to the density code, return the density value. Create the character data corresponding to the snap record display.	
req[8-1-8-11]	Snaplog configuration process	Perform Perform	 Set snap logging data. 1 Create character data corresponding to soon record display.	
req[8-1-8-12]	Snaplog record display processing Snaplog record	Perform Perform	Create character data corresponding to snap record display. Create the snaplog header data.	
req[8-1-8-13]	1.5		Create concentration value and alarm status data.	
			 Create temperature and sign data. Write to the snap log area and increment the snap record pointer.	
	Snaplog read	Perform	 Get the snap recording position. Calculate the read address from the snap record location.	
req[8-1-8-14]			Read the snap record data from the snap area and store it in the buffer.	
	Confirmation of termination record of	Perform	Return read buffer Get the corresponding write pointer from the snap read pointer.	
req[8-1-8-15]	snap log area		Calculate the read address.	
			 Read the data in the snap area. Check the header information and return whether or not there is a record.	<u> </u>
rea[8-1-8-16]	Create snap data	Perform	 Substitute the start code into the output string if the gas channel is 0. 	
req[8-1-8-16]			Assign the concentration value to the output string. Assign the alert status to the output string.	
	Write to Snap Region	Perform	 Compute the write address from the snap record pointer. 	
req[8-1-8-17]			Clear the snap area. Write to the snap area.	
1				
	Get corresponding write pointer from	Perform	Increment the snap record pointer. 1 Compute the corresponding write pointer from the snap read pointer.	
req[8-1-8-18]	Get corresponding write pointer from snap read pointer	Perform	Compute the corresponding write pointer from the snap read pointer.	
	snap read pointer Logger function snapshot processing	Perform	Compute the corresponding write pointer from the snap read pointer. Perform snap log recording processing.	
req[8-1-8-18]	snap read pointer		Compute the corresponding write pointer from the snap read pointer. Perform snap log recording processing. Clear the logger. Write the following items 3 to 10 in order to the logger area test.	
req[8-1-8-18]	snap read pointer Logger function snapshot processing	Perform	Compute the corresponding write pointer from the snap read pointer. Perform snap log recording processing. Clear the logger. Write the following items 3 to 10 in order to the logger area test. Interval region.	
req[8-1-8-18] req[8-1-8-19]	snap read pointer Logger function snapshot processing	Perform	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 1. Clear the logger. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alam trend area. 5. Area number.	
req[8-1-8-18]	snap read pointer Logger function snapshot processing	Perform	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 1. Clear the logger. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Power supply area. 7. Alarm event.	
req[8-1-8-18] req[8-1-8-19]	snap read pointer Logger function snapshot processing	Perform	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Power supply area. 7. Alarm event. 8. Proofreading.	
req[8-1-8-18] req[8-1-8-19]	snap read pointer Logger function snapshot processing	Perform	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 1. Clear the logger. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area rumber. 6. Power supply area. 7. Power supply area. 8. Power supply area. 9. Power supply area. 1. Po	
req[8-1-8-18] req[8-1-8-19]	snap read pointer Logger function snapehot processing Logger area test writing	Perform Perform logger area test writing	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 1. Clear the logger. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Power supply area. 7. Alarm event. 8. Prooffreading. 9. Malturnction. 10. setting charing. 11. Clear the logger.	
req[8-1-8-18] req[8-1-8-19]	snap read pointer Logger function snapshot processing	Perform	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 1. Clear the logger. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Power supply area. 7. Alarm event. 8. Prooftreading. 9. Malfunction. 10. Setting change. 11. Clear the logger. 11. Perform logger area test writing.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2]	snap read pointer Logger function snapshot processing Logger area test writing Test data expansion processing of	Perform Perform logger area test writing Perform test data expansion processing of logger	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Intervair agoin, 3. Intervair agoin, 4. Alarm trend area. 5. Area number. 6. Area mumber. 7. Area mumber. 8. Poofreading. 9. Malfunction. 10. setting change. 11. Clear the logger. 11. Perform logger area test writing. 11. Initialize the logger pointer of the power ON/OFF setting of the A side and B side.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1]	snap read pointer Logger function snapshot processing Logger area test writing Test data expansion processing of logger function	Perform logger area test writing Perform test data expansion processing of logger function	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 1. Clear the logger. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Power supply area. 7. Alarm event. 8. Proofteading. 9. Malfunction. 10. Setting change. 11. Clear the logger. 11. Perform logger area test writing. 1. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record count in page is set to 2.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-1]	snap read pointer Logger function snapshot processing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM	Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Intervair agoin, 3. Intervair agoin, 4. Alarm trend area. 5. Area number. 6. Area mumber. 7. Area mumber. 8. Poofreading. 9. Malfunction. 10. setting change. 11. Clear the logger. 11. Perform logger area test writing. 11. Initialize the logger pointer of the power ON/OFF setting of the A side and B side.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-1]	snap read pointer Logger function snapshot processing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data, logger.	Perform logger area test writing Perform logger area test writing Perform teet data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger.	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Intervair region. 4. Alarm trend area. 5. Area number. 7. Alarm event. 8. Proofreading. 9. Mallanction. 10. setting change. 11. Clear the logger area test writing. 11. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record count in page is set to 2. 3. Clear DATALOGGER, CLEAR. 1. Perform logGOSER.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-1] req[8-2-1-2]	snap read pointer Logger function snapshot processing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data_logger.c Alarm temporary trend clear Data logger clear end confirmation	Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. C	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Power supply srea. 7. Power supply srea. 8. Power supply srea. 9. Power supply srea. 10. Setting change. 11. Clear the logger. 11. Perform logger area test writing. 11. Initialize the logger. 11. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record count in page is set to 2. 3. Clear DATALOGER, CLEAR.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-1]	snap read pointer Logger function snapshot processing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data, logger. Calam temporary trend clear Data logger clear and confirmation processing of logger function	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c. Initialize alarm temporary trend Perform data logger function	1. Cerupute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Power supply area. 7. Alarm event. 8. Prooferading. 9. Mellurotion. 1. Clear the logger. 11. Clear the logger. 11. Initialize the logger pointer of the power ONOFF setting of the A side and B side. 2. Initial value of record court in sage is set to 2. 3. Clear DATALOGGER, CLEAR. 1. Perform address setting of FRAM data for data_logger. c. 1. RAM initialization. 1. Return logger data clear flag.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-1] req[8-2-1-2]	snap read pointer Logger function snapshot processing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data, logger.c Alarm temporary trend clear possioning of logger function processing of logger function possions of logger function possions of logger function processing of logger function possions of logger function plata logger clear processing of logger function plata logger clear processing of logger function plata logger clear processing of logger function	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c Initialize alarm temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger clear processing of logger logger superiors.	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Area mumber. 7. Alarm event. 8. Proofreading. 9. Mallanction. 10. setting change. 11. Clear the logger area test writing. 11. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record count in page is set to 2. 3. Clear DATALOGER. CLEAR. 1. Perform logger area test writing. 1. Profrom address setting of FRAM data for data_logger. 1. RAM initialization. 1. Raturn logger data clear flag 1. Near longer data clear flag 1. When the logger is not cleared,	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-1] req[8-2-1-1] req[8-2-1-2] req[8-2-1-3] req[8-2-1-4]	snap read pointer Logger function anapahot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data, logger. Alarm temporary trend clear Data logger clear end confirmation processing of logger function Data logger clear processing of logger function Data logger function	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c. Initialize alarm temporary trend Perform data logger function	1. Cerupute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Area mumber. 7. Alarm event. 8. Proofreading. 9. Mallanction. 10. setting change. 11. Clear the logger. 11. Perform logger area test writing. 1. Initializate the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record count in page is set to 2. 3. Clear DATALOGER. CLEAR. 1. Perform address setting of FRAM data for data_logger. 1. RAM initialization. 1. Raturn logger data clear flag. 1. When the logger data clear flag. 1. Initialize the logger data clear flag. 1. Initialize to logger data clear flag. 1. Initialize the logger data clear flag. 1. Initialize the logger data clear flag.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-1] req[8-2-1-1] req[8-2-1-2] req[8-2-1-4] req[8-2-1-6]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data logger. Alarm temporary trend clear Data logger clear end confirmation processing of logger function Data logger clear processing of Logger function Logger initialization processing of Logger function Logger initialization processing	Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. Cell rimitatize alarm temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger function processing of logger function Perform data logger clear processing of logger function Perform data logger clear start processing of logger function Perform data logger clear start processing of logger function Perform data logger clear start processing of logger perform data logger clear start processing of logger function.	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 2. Write the following items 3 to 10 in order to the logger area test. 4. Alamm troat days. 5. Area number. 6. Power supply area. 7. Alamm event. 8. Proofreading. 9. Mailtrunction. 10. setting change. 11. Clear the logger. 11. Clear the logger. 11. Initiatize the logger prient of the power CN/OFF setting of the A side and B side. 1. Initiatize the logger prient of the power CN/OFF setting of the A side and B side. 2. Initiatize the logger prient of the power CN/OFF setting of the A side and B side. 1. Initiatize the logger prient of the power CN/OFF setting of the A side and B side. 1. Initiatize the logger prient setting of FRAM data for data_logger. c. 1. RAM initiatization. 1. Return logger data clear flag. 1. When the logger data clear flag. 1. When the logger data clear flag.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-1] req[8-2-1-2] req[8-2-1-4] req[8-2-1-5]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data_logger. Alarm temporary trend clear Data logger deer end confirmation processing of logger function Data logger clear processing of logger function Logger initialization processing Data logger clear processing of logger function Data logger clear processing of logger processing of logger processing of logger logger processing of logger logger start processing	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c Initiatize airam temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger clear processing of logger function Perform data logger clear processing of logger function Perform data logger clear start processing of logger function Perform data logger clear start processing of logger function	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alam trend area. 5. Interval region. 6. Alam trend area. 7. Alam event. 8. Proofreading. 9. Mallanction. 10. setting change. 11. Clear the logger. 11. Clear the logger area test writing. 11. Initialize the logger area test writing. 1. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record court in page is set to 2. 3. Clear DATALOGER. CLEAR. 1. Perform logger area test writing. 1. Perform address setting of FRAM data for data_logger. 1. RAM initialization. 1. Return logger data clear flag. 1. When the logger data clear flag. 1. Initialize the logger.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-1] req[8-2-1-1] req[8-2-1-2] req[8-2-1-4] req[8-2-1-6]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data logger. Alarm temporary trend clear Data logger clear end confirmation processing of logger function Data logger clear processing of Logger function Logger initialization processing of Logger function Logger initialization processing	Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. Cell rimitatize alarm temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger function processing of logger function Perform data logger clear processing of logger function Perform data logger clear start processing of logger function Perform data logger clear start processing of logger function Perform data logger clear start processing of logger perform data logger clear start processing of logger function.	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 2. Write the following items 3 to 10 in order to the logger area test. 3. Area number. 4. Alamm trend area. 5. Area number. 6. Power supply area. 7. Alam event. 8. Proofreading. 9. Malthoration. 10. setting character. 10. setting character. 11. Initiatize the logger priese at test writing. 1. Initiatize the logger priese at test writing. 1. Initiatize the logger priese setting of the A side and B side. 2. Initiat value of record count in page is set to 2. 3. Clear DATALOGGER, CLEAR. 1. Perform adjoes setting of FRAM data for data_logger. c. 1. RAM initiatization. 1. Return logger data clear flag. 1. When the logger data clear flag is ON and the logger is not cleared, turn off the logger. 1. Initiatize the logger.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-1] req[8-2-1-1] req[8-2-1-2] req[8-2-1-4] req[8-2-1-6]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data_logger. Alarm temporary trend clear Data logger deer end confirmation processing of logger function Data logger clear processing of logger function Logger initialization processing Data logger clear processing of logger function Data logger clear processing of logger processing of logger processing of logger logger processing of logger logger start processing	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c Initiatize airam temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger clear processing of logger function Perform data logger clear processing of logger function Perform data logger clear start processing of logger function Perform data logger clear start processing of logger function	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. White the following items 3 to 10 in order to the logger area test. 4. Alamin tronel. 5. Area number. 6. Power supply area. 7. Alamin worst. 8. Proofreading. 9. Mallunction. 10. setting change. 11. Clear the logger. 11. Clear the logger. 11. Clear the logger. 11. Clear the logger. 11. Eventure logger area test writing. 1. Initiatize the logger. 1. Initiatize the logger printer of the power CN/OFF setting of the A side and B side. 2. Initiatize the logger. 1. Perform dodress setting of FRAM data for data_logger. c. 1. Refurn logger data clear flag. 1. When the logger data clear flag. 1. Initiatize the logger data clear flag. 1. Initiatize the logger. 1. Turn logger data clear flag. 1. Initiatize the logger. 1. Turn logger data clear flag. 1. Initiatize the logger. 1. Initiatize the logger. 1. Initiatize the logger. 1. Initiatize the logger. 2. Clear DATALOGGER, CLEAR.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-2] req[8-2-1-2] req[8-2-1-2] req[8-2-1-4] req[8-2-1-6] req[8-2-1-6]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data_logger. Alarm temporary trend clear Data logger deer end confirmation processing of logger function Data logger clear processing of logger function Logger initialization processing Data logger clear processing of logger function Data logger clear processing of logger processing of logger processing of logger logger processing of logger logger start processing	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c Initiatize airam temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger clear processing of logger function Perform data logger clear processing of logger function Perform data logger clear start processing of logger function Perform data logger clear start processing of logger function	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 5. Area number. 6. Power supply area. 7. Alarm event. 8. Proofreading. 9. Malfunction. 10. setting change. 11. Clear the logger. 11. Clear the logger. 11. Clear the logger area test writing. 1. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record court in page is set to 2. 3. Clear DATALOGEER, CLEAR. 1. RAMI initialization. 1. Return logger data clear flag. 1. When the logger data clear flag is ON and the logger is not cleared, turn off the logger data clear flag. 1. Initialize the logger. 1. Turn logger data clear flag is ON and the logger is not cleared, turn off the logger data clear flag in ON. 1. Initialization.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-2] req[8-2-1-2] req[8-2-1-2] req[8-2-1-4] req[8-2-1-6] req[8-2-1-6]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data, logger collection Power supply logger Address setting processing of FRAM data for data, logger collection Data logger deer and confirmation processing of logger function Data logger deer start processing of logger function Data logger deer start processing of logger function Data logger deer start processing of logger function Logger function Logger function	Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data. Logger. c. Includes alarm temporary trend Perform data logger clear processing of logger function Perform data logger dear processing of logger function Perform data logger dear processing of logger function Perform data logger clear start processing Perform data logger logger function Clear the logger relative processing of logger function Clear the logger relative processing of logger function Clear the logger relative processing of logger function Clear the logger	1. Cerupute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Area mumber. 7. Alarm event. 8. Proofreading. 9. Mallanction. 10. setting change. 11. Clear the logger. 11. Perform logger area test writing. 11. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record count in page is set to 2. 3. Clear DATALOGGER_CLEAR. 1. Perform address setting of FRAM data for data_logger. 1. RAM initialization. 1. Return logger data clear flag. 1. Initialize the logger clear clear flag is ON and the logger is not cleared, turn off the logger. 1. Initialize the logger. 2. Clear DATALOGGER_CLEAR. 3. Clear DATALOGGER_CLEAR. 3. Clear DATALOGGER_CUEAR with site late. 4. DATALOGGER_CUEAR be, initialize funch break and start logger.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-2] req[8-2-1-2] req[8-2-1-2] req[8-2-1-4] req[8-2-1-5] req[8-2-1-6]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data_logger. Alarm temporary trend clear Data logger deer end confirmation processing of logger function Data logger clear processing of logger function Logger initialization processing Data logger clear processing of logger function Data logger clear processing of logger processing of logger processing of logger logger processing of logger logger start processing	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c Initiatize airam temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger clear processing of logger function Perform data logger clear processing of logger function Perform data logger clear start processing of logger function Perform data logger clear start processing of logger function	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 5. Area number. 6. Power supply area. 7. Alarm event. 8. Proofreading. 9. Malfunction. 10. setting change. 11. Clear the logger. 11. Clear the logger. 11. Clear the logger area test writing. 1. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initial value of record court in page is set to 2. 3. Clear DATALOGEER, CLEAR. 1. RAMI initialization. 1. Return logger data clear flag. 1. When the logger data clear flag is ON and the logger is not cleared, turn off the logger data clear flag. 1. Initialize the logger. 1. Turn logger data clear flag is ON and the logger is not cleared, turn off the logger data clear flag in ON. 1. Initialization.	
req[8-1-8-18] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-1] req[8-2-1-2] req[8-2-1-2] req[8-2-1-4] req[8-2-1-6] req[8-2-1-7]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data, logger. Alarm temporary trend clear Data logger clear and confirmation processing of logger function Logger function Logger function processing of logger function Logger function processing of logger function	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c Intalize alarm temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger clear processing of logger function Perform logger initialization processing Perform data logger clear start processing of logger function Clear the logger Substitute the trouble detail code Perform logger full state set	1. Compute the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 5. Area number. 6. Power supply area. 7. Alam weent. 8. Proofreading. 9. Mallunction. 10. setting change. 11. Clear the logger. 12. Initialize the logger pointer of the power CN/OFF setting of the A side and B side. 1. Initialize the logger. 1. Initialize the logger great test writing. 1. Initialize the logger pointer of the power CN/OFF setting of the A side and B side. 1. Initialize the logger great test writing. 1. Initialize the logger great setting of FRAM data for data_logger. c. 1. Refurn logger data clear flag. 3. Clear DATALOGGER, CLEAR of the logger is not cleared, turn off the logger data clear flag. 1. Initialize the logger clear clear flag. 1. Initialize the logger clear clear flag. 1. Initialize the logger clear clear flag. 2. Initialize the logger clear clear flag. 3. Initialize the logger clear clear flag. 4. Initialize the logger clear clear flag. 5. Initialize the logger clear clear flag. 6. Initialize the logger clear clear flag. 7. Lear DATALOGGER, CLEAR. 7. Clear	
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req[8-1-8-18] req[8-1-8-19] req[8-1-8-19] req[8-1-9-1] req[8-1-9-2] req[8-2-1-1] req[8-2-1-3] req[8-2-1-4] req[8-2-1-5] req[8-2-1-7] req[8-2-1-1] req[8-2-1-1]	snap read pointer Logger function snapshot processing Logger area test writing Logger area test writing Test data expansion processing of logger function Power supply logger Address setting processing of FRAM data for data, logger. Alarm temporary trend clear Data logger clear and confirmation processing of logger function Logger function Logger function processing of logger function Logger function processing of logger function	Perform logger area test writing Perform logger area test writing Perform test data expansion processing of logger function Perform power supply logger clear processing Perform address setting of FRAM data for data, logger. c Intalize alarm temporary trend Perform data logger clear and confirmation processing of logger function Perform data logger clear processing of logger function Perform logger initialization processing Perform data logger clear start processing of logger function Clear the logger Substitute the trouble detail code Perform logger full state set	1. Ceruptus the corresponding write pointer from the snap read pointer. 1. Perform snap log recording processing. 2. Write the following items 3 to 10 in order to the logger area test. 3. Interval region. 4. Alarm trend area. 5. Area number. 6. Area mumber. 7. Alarm event. 8. Proofreading. 9. Mallanction. 10. setting change. 11. Clear the logger. 11. Perform logger area test writing. 11. Initialize the logger pointer of the power ON/OFF setting of the A side and B side. 2. Initialize the logger. 1. Perform address setting of FRAM data for data_logger. c. 1. RAM initialization. 1. Return logger data clear flag is ON and the logger is not cleared, turn off the logger data clear flag. 1. Initialize the logger. 1. Initialize	
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	Confirmation processing of DISP mode menu display items	Confirmation processing of DISP mode menu display items	Confirm the following display items 2 to 10. STEL display item.	
			TWA display item. Integrated display item.	
			Calibration record indication. BUMP record indication.	
req[9-2-1-4]			Flammable reading gas selection item. Flammable long energy setting indication.	
			9. User ID selection display. 10. Station ID selection display.	
req[9-3-1-1]	Gas calibration mode menu start processing	Perform gas calibration mode menu start processing	I. Initialize item number. Turnoff up / down numerical value setting.	
req[9-3-1-2]	Calibration Expiration Gas Calibration	Perform Calibration Expiration Gas Calibration Mode	Initialize item number with auto cal menu number.	
	Mode Menu Start Processing Gas calibration mode menu item	Menu Start Processing Perform gas calibration mode menu item	Turnoff up / down numerical value setting. If the up / down numeric value change setting is OFF, move the item upward.	
req[9-3-1-3]	selection processing	selection processing	If the up / down change setting of the number is ON, move the item downward.	
req[9-3-1-4]	Gas calibration mode menu display processing	Perform gas calibration mode menu display processing	Check the gas calibration mode menu display item. Create character data corresponding to the gas calibration mode menu.	
	Check processing of gas calibration	Performs confirmation processing of the gas	Hide reserved items in gas calibration mode.	
req[9-3-1-5]	mode menu display items User mode menu start processing	calibration mode menu display item Perform USER mode menu start process	Initialize item number.	
req[9-3-1-6]	User mode menu start processing for	Perform user mode menu start processing for	Turnoff up / down numerical value setting. Initialize item number with cal limit menu number.	
req[9-3-1-7]	calibration expiration User mode menu start processing for	calibration expiration Perform user mode menu start processing for BUMP	Turnoff up / down numerical value setting. Initialize item number with bump limit menu number.	
req[9-3-1-8]	BUMP expiration	expiration	Turnoff up / down numerical value setting.	
req[9-3-1-9]	User mode menu item selection processing	Perform USER mode menu item selection processing	If the up / down numeric value change setting is OFF, move the item upward. If the up / down change setting of the number is ON, move the item downward.	
req[9-3-1-10]	User mode END display processing	Perform USER mode END display processing	Create character data corresponding to USER mode END.	
req[9-3-1-11]	User mode menu display processing	Perform USER mode menu display processing	Character data is set with the value of item number as a condition. Create character data corresponding to the setting mode menu.	
	Confirmation processing of User	Confirm processing of USER mode menu display	Execute display setting of item 2 to 5 below.	
	mode menu display item	items	ON/OFF setting of calibration expired function setting item. Zero tracking ON/OFF is displayed in USER.	
req[9-3-1-12]			Display suppression ON/OFF in USER. AIR calibration switch indication in USER mode.	
req[9-4-1-1]	Maintenance mode menu start processing	Perform maintenance mode menu start processing	Initialize item number. Turnoff up / down numerical value setting.	
req[9-4-1-2]	Maintenance mode menu item selection processing	Perform maintenance mode menu item selection processing	If the up / down numeric value change setting is OFF, move the item upward. If the up / down change setting of the number is ON, move the item downward.	
	Maintenance mode menu display	Perform maintenance mode menu display	Check the MAINTE mode menu display items.	
req[9-4-1-3]	processing	processing	Create text data corresponding to MAINTE mode menu.	
req[9-4-1-4]	Maintenance mode menu display item confirmation processing	Confirm processing of maintenance mode menu display items	 If the destination setting is domestic or a ship, display the maintenance announcement setting. 	
req[9-5-1-1]	Gas select mode menu start	Perform gas select mode menu start processing	If the destination setting is overseas, hide the maintenance announcement setting. Initialize item number.	
req[8-5-1-1]	processing Gas select mode menu item	Perform gas select mode menu item	Turnoff up / down numerical value setting. In the up / down numeric value change setting is OFF, move the item upward.	
req[9-5-1-2]	selection processing	selection processing	If the up / down change setting of the number is ON, move the item downward.	
req[9-5-1-3]	Gas select mode menu display processing	Perform gas select mode menu display processing	Create character data corresponding to the gas select mode menu.	
req[9-6-1-1]	FACT mode menu start processing	Perform FACT mode menu start processing	Initialize item number. Turnoff up / down numerical value setting.	
req[9-6-1-2]	FACT mode menu item selection processing	Perform FACT mode menu item selection processing	I. If the up / down numeric value change setting is OFF, move the item upward. If the up / down change setting of the number is ON, move the item downward.	
164[5-0-1-2]	FACT mode menu display	Perform FACT mode menu display processing	Create character data corresponding to FACT mode menu.	
req[9-6-1-3]	processing			
req[9-7-1-1]	Communication mode communication display processing	Perform communication mode communication display processing	Create character data corresponding to communication mode communication.	
req[9-7-2-1]	SDM mode display processing	Perform SDM mode display processing	Create character data corresponding to SDM mode.	
req[9-7-2-2]	Acquisition processing of gas combo data for SDM	Acquire processing of gas combo data for SDM	Return gas setting data for SDM measurement display.	
req[9-7-2-3]	Acquisition processing of EX command flag for SDM	Acquire processing of EX command flag for SDM	Return the EX command flag of the command for SD.	
	SDM display data creation processing	Perform SDM display data creation processing	Clear display data of LCD. In the case of the measurement screen, the measurement display data for SDM is	
req[9-7-2-4]			created. 3. In the case of the maintenance screen, the maintenance display data for SDM is created.	
req[9-7-2-5]	EX command data reception processing for SDM	Perform EX command data reception processing for SDM	Create character data corresponding to reception of EX command data for SDM.	
	Setting process of EX command flag of SDM command	Perform setting process of EX command flag of SDM command	When the ON/OFF setting flag is ON, turn on the EX command flag of the command for SDM.	
req[9-7-2-6]			When the ON/OFF setting flag is OFF, the EX command flag of the command for SDM is turned off.	
req[9-7-2-7]	Maintenance display data creation processing for SDM	Performs maintenance display data creation processing for SDM	Create character data to be displayed on the maintenance screen.	
req[9-7-2-8]	Measurement display data creation processing for SDM	Perform measurement data creation processing for SDM	Create character data to be displayed on the measurement screen. Blink a comment character.	
		Calculate display time of initials	Set the display time of the following items 2 to 14 displayed during the initial. Date and time.	
			3. Battery voltage. 4. Gas name.	
			5. TWA alarm point. 6. STEL alarm point.	
req[9-8-1-1]			7. Integrating alarm point. 8. 1st alarm point.	
			9. 2 nd alarm point. 10. 3 rd alarm point.	
			11. Calibration expiration. 12. BUMP expiration.	
			13. User ID. 14. Station ID.	
req[9-8-1-2] req[9-8-1-3]		Acquire display time of initials Create full screen display of initials	Return initial display time. Set all lighting display data.	
req[9-9-1-1]	Acquisition of the mode status	Acquire mode status	Return the mode number.	
req[9-9-1-2]	Setting the mode status Each mode menu item selection	Set the mode status Perform each mode menu item selection processing	Place the mode flag in the mode number. Increment the current value when up/down selection is OFF. Skip item hidden numbers.	
req[9-9-1-3]	processing Mode selection numerical value	Perform mode selection numerical value acquisition	If the up-down selection is ON, decrement if the current value is non-zero, and set the end number of the mode if the current value is 0. Skio item hidden numbers. Acquire the following selection values 2 to 6 and return the acquiring value.	
	Mode selection numerical value acquisition processing	Perform mode selection numerical value acquisition processing	Acquire the following selection values 2 to 6 and return the acquired value. Selection value in mode. Selected value in sub mode.	
req[9-9-1-4]			Selected value in sub mode. Selected value in sub 2 mode. Number.	
	Gas name display	Perform ras name display	Sub numerical value.	
	Cao name uiopidy	Perform gas name display	When the following conditions 2 to 5 are satisfied, the read gas name is displayed. Setting is ON. H2 Cancel is not CO.	
req[10-2-1-1]			3. H2 Cancel is not CO. 4. Flammability. 5. It is being rewritten	
			Create character data corresponding to gas name display.	
males s = ···	Full scale display	Perform full scale display	 When the setting is on and H2 is not canceled CO, full scale concentration value and gas name are displayed. 	
req[10-2-2-1]			Create character data corresponding to full scale display.	
	Integral alarm point display	Perform integral alarm point display	 When the following conditions 2 to 4 are satisfied, the concentration value and the gas name to be integrated warning are displayed. 	
req[10-2-4-1]			Setting is ON. Alarm function is OFF.	
			Create character data corresponding to integral alarm point display.	
	1st alarm point display	Perform 1st alarm point display	When the following conditions 2 to 4 are satisfied, the concentration value and the gas name to be the 1st alarm are displayed.	
req[10-2-4-2]			Setting is ON. H2 Cancel is not CO.	
			Alarm function is OFF. S. 1st Create character data corresponding to alarm point display.	
	2nd alarm point display	Perform 2nd alarm point display	When the following conditions 2 to 4 are satisfied, the concentration value and	
			the gas name to be the 2 nd alarm are displayed. 2. Setting is ON.	
req[10-2-4-3]			H2 Cancel is not CO. A. Alarm function is OFF. Create character data corresponding to 2nd alarm point display.	
			Greate character data corresponding to 210 alarm point display.	

	3rd alarm point display	Perform 3rd alarm point display	 When the following conditions 2 to 4 are satisfied, the concentration value and the gas name to be a 3rd alarm are displayed.
req[10-2-4-4]			2. Setting is ON. 3. H2 Cancel is not CO.
			Alarm function is OFF Create character data corresponding to 3rd alarm point display.
	STEL alarm point display	Perform STEL alarm point display	When the following conditions 2 to 4 are satisfied, the concentration value and
			the gas name to be the STEL alarm are displayed. 2. Setting is ON.
req[10-2-4-5]			3. H2 Cancel is not CO. 4. Alarm function is OFF.
			STEL Creates character data corresponding to alarm point display.
	TWA alarm point display	Perform TWA alarm point display	 When the following conditions 2 to 4 are satisfied, the concentration value and the gas name to be the TWA warning are displayed.
req[10-2-4-6]			2. Setting is ON. 3. H2 Cancel is not CO.
			Alarm function is OFF. Create character data corresponding to TWA alarm point display.
	Alarm point display processing	Perform alarm point display processing	If item number is 0, display full scale. When the item number is 1, the 1st alarm point is displayed.
			When item number is 2, 2nd alarm point is displayed.
req[10-2-5-1]			4. When item number is 3, display 3rd alarm point. 5. When the item number is 4, the STEL alarm point is displayed. 6. When the item number is 5, the TVVA alarm point is displayed.
	Alarm point display start processing	Perform alarm point display start processing	7. When the item number is 6, display the integration alarm point. 1. Initialize item number:
req[10-2-5-2]			Turnoff up / down numerical value setting.
req[10-2-5-3]	Alarm point display item selection processing	Perform Alarm point display item selection processing	If there is a toxicity sensor, display STEL and TWA.
req[10-3-1-1]	Display date and time	Display date and time	Acquire date and time data. Create character data corresponding to date and time display.
req[10-3-4-1]		Perform date and time setting end processing	Convert the numerical value corresponding to the date and time to character data. Set the date and time of the RTC.
req[10-3-4-2]	Date and time setting preprocessing	Perform date and time setting preprocessing	Initialize item number. Turnor flag flag flag flag flag Get the current date and time.
		Perform the date and time setting item change	When the following conditions 2 to 3 are satisfied, the maximum value of the date
req[10-3-4-3]	processing	processing	and time is set. 2. Next item to be set is day.
	Date and the second second		If the date and time is greater than the settable date and time, set the date and time to the maximum value.
req[10-3-4-4]	Date and time set value change processing	Perform date and time set value change processing	Set the numerical values for year, month, hour, minute.
req[10-3-4-5]	Date setting display processing	Perform date setting display processing	Create character data corresponding to the date and time setting and change the number to character (SHORT) data.
	Deltas vellege	A carrier helter rustless	Display character data corresponding to item number. Heaven the All Deliver of the bettery. The All Deliver of the bettery.
req[10-4-1-1] req[10-4-1-2]	Battery voltage acquisition processing Battery voltage acquisition processing	Acquire battery voltage Acquire battery voltage for communication output	Return the A/D value of the battery. Return the A/D value of the communication battery.
	for communication output Battery voltage calculation	Perform battery voltage calculation processing	1. Read 12-bit A/D value.
req[10-4-1-3]	processing Battery voltage display	Display battery voltage	When the A/D value of DRY battery is 200 mV or less, set it to Li-ion battery. 1. Acquire battery voltage.
req[10-4-2-1]			Create character data corresponding to battery voltage display. Convert numeric value corresponding to battery voltage indication into character data.
	Battery voltage confirmation	Perform battery voltage confirmation processing	Calculate battery voltage.
req[10-4-3-1]	processing		2. When using a lithium ion battery, obtain the status of the lithium ion battery. 3. When using alkaline batteries, obtain the status of alkaline batteries.
req[10-4-3-2]	Battery icon level acquisition process for communication output	Acquire the communication output battery icon level	Return battery voltage icon level.
req[10-4-3-3]	Low-temperature operation necessity confirmation processing	Perform low-temperature operation necessity confirmation processing	Initialize the low temperature operation required flag. Turn ON the low temperature operation required flag in the initial mode and when the
			current temperature is below the threshold. 3. Return the low temperature oceration required flag. 1. Display the battery icon.
req[10-4-4-1]	Battery icon lighting processing ROM/SUM display start processing	Perform battery icon lighting processing Perform ROM/SUM display start processing	Initialize item number.
req[10-5-1-1]			Turnoff up / down numerical value setting. Start ROM check.
	Get gas table version number	Perform get gas table version number	4. Start SUM calculation of RL78. 1. Return the gas table version number.
req[10-5-1-2]			
	ROM/SUM display processing	Perform ROM/SUM display processing	Create character data corresponding to ROM / SUM display
req[10-5-2-1]			Convert numeric value corresponding to ROM / SUM display to character data
req[10-5-2-2]	Get gas table SUM	Perform get gas table SUM	Return the SUM value of the gas table.
	ROM/SUM calculation in progress	Perform confirmation processing during ROM / SUM	When the SUM calculation of MAIN is completed, check the SUM value of MAIN
req[10-5-3-1]	confirmation processing	calculation	When the SUM calculation of the SUB is completed, the SUM value of the SUB is confirmed.
req[10-6-1-1]	Station ID display	Display the station ID	Convert the numerical value corresponding to the station ID display into character data. Create character data corresponding to station ID display.
	User ID display	Display the user ID	Convert numeric value corresponding to user ID display into character data.
req[10-6-2-1]			Create character data corresponding to user ID display.
req[10-7-1-1]	A/D value display preprocessing	Perform A/D value display preprocessing	I. Initialize item number. Turnoff up / down numerical value setting.
req[10-7-1-2]	A/D value display page switching A/D value display processing	Switch the display page of the A/D value Perform A/D value display processing	I. Include increment / decrement processing of number in item number. Create character data corresponding to each A/D value display.
	variou display processing		Create character data corresponding to each A/D value display. Convert the numerical value corresponding to each A/D value display to character data.
req[10-7-1-3]			
	Using temperature warning reset	Perform reset processing of using temperature	When the warning buzzer counter is smaller than the buzzer resettable time and
req[11-1-2-1]	processing	warning	the operating temperature warning reporting flag is ON, the warning buzzer flag is turned off again.
	Using temperature warning flag acquisition processing	Acquire the using temperature warningg flag	When the usage outside temperature range count is equal to or more than the buzzer resettable time and the out-of-service temperature range flag is ON,
req[11-1-2-2]			the oberation temperature warning flag is set to 2. Returns operating temperature warning flag.
req[11-1-2-3]	Using temperature warning issuing flag acquisition processing	Acquire using temperature warning reporting flag	Return the operating temperature warning reporting flag.
	Using temperature warning confirmation processing	Confirm processing of the using temperature warning	If a warning is occurring and the temperature is out of the reset temperature range, reset the warning reset count.
	oon annauon processing		reset the warning reset count. 2. When a warning is occurring and the warning reset count is equal to or more than the specified count, the following processes 3 to 5 are executed.
			the specified count, the following processes 3 to 5 are executed. 3. Temperature range out of use flag is turned off. 4. Warning Reset reset count.
			S. Reset outside the operating temperature range. If no warning has occurred, execute the following processing 7 to 10.
			Reset warning buzzer counter again. Temperature warning flag set OFF.
req[11-1-2-4]			Reset the count outside the operating temperature range when the temperature is within the operating temperature range.
			10. If the count outside the operating temperature range is more than specified and the measurement is in progress or during the display mode, execute the following
			processes 11 to 13. 11. Turnon the outside temperature range flag.
			Temperature warning flag set ON. Warning Reset reset count.
			14. If the buzzer reoccurrence count is over the specified value or 1 hour has elapsed, the following processes 15 to 16 are carried out.
			Temperature warning warning flag set ON. Reset warning buzzer counter again.
	10 msec interruption processing for using temperature warning	Perform 10 msec interruption processing for using temperature warning processing	When the outside temperature range count is less than the timer count maximum value, count up outside the operating temperature range.
	processing		Warning When the reset count is less than the timer count maximum value, count the warning reset count. When the warning buzzer counter is again less than the timer count maximum value,
req[11-1-2-5]			the warning buzzer counter is counted up again. 4. When the operating temperature warning announcement flag is ON and the 5 second
			 When the Operating temperature warning announcement riag is UN and the 5 second count timer is abnormal during buzzer ringing, execute the following processing 5 to 7. 5 seconds Reset the count timer.
			S. S sections reason the count uniter. Ring a warning buzzer tone. Reset LOD backlight timer.
	Acquire long energy flag	Get long energy flag	1. Acquire long flag ON/OFF setting flag. 2. When any of the following conditions 3 to 5 is satisfied, the long life ON/OFF setting flag.
req[11-2-1-1]			is turned off. 3. AIR calibration is in progress.
1			Maintenance is in progress. Flammable sensor is warning up or off. Remun long flag ONOFF setting flag.

req[11-2-2-1]	Flammable long energy setting display processing	Perform flammable long energy setting display processing	Create character data corresponding to flammable long energy setting.
req[11-2-2-2]	Flammable long energy setting display end processing	processing Perform flammable long energy setting display end processing	Place the item number in the ON/OFF setting of the long life mode. Turn on FRAM write start flac.
req[11-2-2-3]	Flammable long energy setting display start processing	Perform flammable long energy setting display start processing	Place the ON/OFF setting of long life mode in the item number.
req[11-2-2-4]	Flammable long energy setting selection processing	Perform flammable long energy setting display selection processing	Perform selection process of flammable long energy setting.
req[11-2-2-5]	Long energy setting call Setting of long energy	Perform long call energy setting call processing Perform long energy setting process	Return ON/OFF setting flag of long energy. When the ON/OFF setting flag is OFF, turn ON/OFF setting flag of long energy OFF.
req[11-2-2-6] req[11-3-1-1]	Margin value calculation processing	Perform margin value calculation process	When the ON/OFF setting flag is ON, turn ON/OFF setting flag of long energy. 1. Calculate reserve value corresponding to each gas.
	EC sensor margin value calculation processing	Perform EC sensor margin value calculation processing	Obtain the A/D value of the sensor. Correct the temperature at zero point and change to the reference temperature.
req[11-3-1-2]			Calculate the span temperature compensation coefficient. Calculate EC sensor reserve value.
rea[11-3-1-3]	Hydrogen cancellation carbon monoxide margin value calculation processing	Perform hydrogen cancellation carbon monoxide margin value calculation processing	H2 cancel Acquires the A/D value of CO and H2S. Correct the temperature at zero point. Calculate the span output at the current temperature.
req[11-3-1-3]	processing		Calculate the span output at the current temperature. Calculate the span temperature compensation coefficient. H2 Cancel Calculate the margin value of CO.
req[11-3-1-4]	Oxygen margin value calculation processing	Perform oxygen margin value calculation processing	1. Set the address to O2. 2. When the instruction is plus, calculate the reserve value of O2.
	Combustible margin value calculation processing	Perform combustible margin value calculation processing	Set the address to NC. Calculate the NC zero point temperature compensation coefficient.
			Calculate the NC span point temperature compensation coefficient. Calculate reserve value of combustible gas.
req[11-3-1-5]			
	Display of margin value after auto	Display of margin value after auto calibration	When the calibration is executable and not H2 of H2 canceled CO, the gas name is
req[11-3-2-1]	calibration	Display of margin value and care canonalari	displayed as the marginal value concentration. 2. AUTO Creates character data corresponding to the margin value after proofreading.
	Margin value display function	Perform margin value display function ON/OFF	When the following conditions 2 to 4 are satisfied, turn on the result.
req[11-3-3-1]	ON/OFF confirmation processing	confirmation processing	Span reserve value display is ON. Galibration executable. HZ Cancel CO is not H2.
reg[11-3-3-2]	Sensor margin margin display	Perform sensor marginvalue display ON/OFF	Return results. Create display of ON/OFF setting menu corresponding to ON/OFF setting of sensor
req[11-3-3-2]	ON/OFFsetting display processing Sensor margin value display	setting display processing Perform sensor margin/value display ON/OFF	reserve value display. 1. Enter the item number in the margin value display ON/OFF setting. 2. Turger EPAM write start files.
req[11-3-3-4]	ON/OFF setting end processing Sensor margin value display	setting end processing Perform sensor marginalue display ON/OFF	Turnon FRAM write start flag. Put the remaining power value display ON/OFF setting in the item number.
req[11-3-3-5]	ON/OFF setting start processing Sensor margin value display ON/OFF setting selection processing	setting start processing Perform sensor marginvalue display ON/OFF setting selection processing	Place the ON/OFF swapping process in the item number.
req[11-4-2-1]		setting selection processing Perform stealth motor ON/OFF setting display processing	Create display of ON/OFF setting menu corresponding to stealth motor ON/OFF setting.
req[11-4-2-2]	Stealth function ON/OFF setting display processing	Perform stealth function ON/OFF setting display processing	Create a display of the ON/OFF setting menu corresponding to the stealth function ON/OFF setting.
req[11-4-2-3]	Stealth function ON/OFF setting end processing	Perform stealth function ON/OFF setting end processing	Enter the item number in the stealth setting. Insert item number into stealth motor setting.
req[11-4-2-4]	Stealth motor ON/OFF setting start	Perform stealth motor ON/OFF setting start	Turnon FRAM write start flag. 1. Place the stealth motor setting in the item number.
req[11-4-2-5]	processing Stealth function ON/OFF setting start processing	processing Perform stealth function ON/OFF setting start processing	Place the stealth setting in the item number.
req[11-4-2-6]	Stealth motor ON/OFF setting selection processing	Perform stealth motor ON/OFF setting selection processing	Place the ON/OFF swapping process in the item number.
req[11-4-2-7]	Stealth function ON/OFF setting selection processing	Perform stealth function ON/OFF setting selection processing	Place the ON/OFF swapping process in the item number.
req[11-5-1-1]	Flammability limit warning display	Perfor flammability limit warning display	Create character data corresponding to flammable restriction warning.
	Processing for setting gas data for reading NC sensor	Perform processing for setting gas data for reading NC sensor	Acquire the following items 2 to 6. Calibration curve number.
req[11-5-2-1]			3. Measurement gas type group. 4. The ratio of FS% LEL to the representative gas. 5. Ppm equivalent to LEL. 1. The ratio of FS% LEL to the representative gas. 1. The ratio of FS% LEL to the representative gas
			Ppm value corresponding to LEL used for concentration calculation.
rea[11-5-2-2]	Combustible gas read permission confirmation processing	Perform combustible gas read permission confirmation processing	When the following conditions 2 to 4 are satisfied, the result is made OK. Gas name is not ***** Unit is not vol%.
104[11022]			4. Not HC. 5. Return results.
req[11-5-2-3]	Flammable gas selection display processing	Perform flammable gas selection display processing	Create character data corresponding to flammable gas selection.
req[11-5-2-4]	Flammable gas selection display end processing	Perform flammable gas selection display end processing	Place the item number in the combustible read gas number. Set gas data for reading NC sensor. Tumon FRAM write start flag.
req[11-5-2-5]	Flammable gas selection display start processing	Perform flammable gas selection display start processing	Initialize item number. Turnoff the numeric up / down change setting.
req[11-5-2-6]	Flammable gas selection display item selection processing	Perform flammable gas selection display item selection processing	I. If the up / down numeric value change setting is OFF, move the item upward. If the up / down change setting of the number is ON, move the item downward.
req[11-5-2-7]	Flammability limit warning display presence/absence confirmation	Perform flammability limit warning display presence/absence confirmation processing	If the following conditions 2 to 4 are satisfied, ON is returned. Calibration executable.
roq[11021]	processing	Dedarm flow mobile contribution mode about	3. The combustible gas setting is CH 4 or i - C 4 H 10. 4. In flammable limit. 1. When the flammable restriction is in effect and the combustible gas setting is
req[11-5-2-8]	Flammable restriction mode check processing	Perform flammable restriction mode check processing	CH 4 or i - C 4 H 10, turn on the result. 2. Return results.
req[11-5-2-9]	Confirmation of flammable restriction mode Read gas initialization	Perform confirmation of flammable restriction mode Read gas initialization processing	If the present value is solvent setting, carry out the following processing 2 to 4. Setting the read-out gas setting as calibration gas.
	processing Flammable LEL value switching	Perform flammable LEL value switching setting	Set gas data for reading NC sensor. Turnon FRAM write start flag. Create character data corresponding to flammable LEL value switching setting.
req[11-6-2-1]	setting display processing	Perrorm nammable LEL value switching setting display processing	1. Create character data corresponding to flammable LEL value switching setting. 2. Convert the numerical value corresponding to the flammable LEL value switching setting to character data. 3. Flash maintenance letters.
	Flammable LEL value switching	Perform flammable LEL value switching setting	Place the item number in the flammable LEL value.
req[11-6-2-2]	setting end processing	end processing	Set LEL value for flammable gas data. Turnoff up / down numerical value setting.
req[11-6-2-3]	Flammable LEL value switching start setting processing	Perform flammable LEL value switching setting start processing	Flammability Set the setting of the LEL numerical value in the item number. Turnoff up / down numerical value setting.
req[11-6-2-4]	Flammable LEL value switching setting selection processing Calibration data display processing	Perform flammable LEL value switching setting selection processing Perform calibration data display processing	I. Include increment / decrement processing of number in item number. Create character data corresponding to proofreading data.
req[11-7-1-1] req[11-7-1-2]	Calibration data display processing Calibration data display start processing	Perform calibration data display processing Perform calibration data display start processing	Create character data corresponding to proofreading data. Initiatize item number. Turnoff up / down numerical value setting.
req[11-7-1-3]	Calibration data display item selection processing	Perform calibration data display item selection processing	1. If the up / down numeric value setting is OFF, move the item upward. 2. If the up / down change setting of the number is ON, move the item downward.
<u> </u>	Calibration data bump data display	Perform calibration data bump data display item	If the up/down selection flag is up, increment the mode selection number.
req[11-7-1-4]	item selection process	selection process	Skip numbers with invalid gas settings. 2. If the up/down selection flag is down and the mode selection number is non-zero, the mode selection number is decremented, and if the mode selection number is 0, the
			maximum value of the mode selection is substituted. Skip numbers with invalid gas settings.
req[11-8-1-1] req[11-8-1-2]	BUMP data display processing BUMP data display start processing	Perform BUMP data display processing Perform BUMP data display start processing	Create character data corresponding to BUMP data. Initiatize ten number. Tumoff up / down numerical value setting.
req[11-8-1-3]	BUMP data display item selection processing	Perform BUMP data display item selection processing	Lumoft up / down numerical value setting. If the up / down numeric value change setting is OFF, move the item upward. If the up / down change setting of the number is ON, move the item downward.
	Calibration data bump data display	Perform calibration data bump data display item	I. If the up/down selection flag is up, increment the mode selection number.
req[11-8-1-4]	item selection process	selection process	Skip numbers with invalid gas settings. 2. If the up/down selection flag is down and the mode selection number is non-zero, the
req[11-9-1-1]	FRAM reset alarm point data is selected and read	FRAM reset alarm point data is selected and read	Read specified byte read processing result into FRAM and read it into result. Reset the watchdag timer. Readiculate the check SUM value.
. 54[11 9-1-1]			If the result of recalculation is inconsistent, make the reading result NG. Return reading results.
	FRAM reset alarm point LOAD processing	Perform FRAM reset alarm point LOAD processing	Read FRAM reset alarm point data 2 planes. Match write process.
req[11-9-1-2]			Compare which side is the latest. Write on the old side. If you do not know which side is the latest, write on both sides.
			6. Return judgment result.

	Confirmation flag for checking	Set the confirmation flag as to whether the alarm	Return alarm reset ON/OFF setting flag.	
req[11-9-1-3]	whether the alarm point can be reset to the factory setting	point can be reset to the factory setting		
req[11-9-1-4]	Alarm point factory setting restore display 1 processing	Perform alarm point factory setting restore display 1 processing	Create character data corresponding to display 1.	
req[11-9-1-5]	Alarm point factory setting restore display 2 processing	Perform alarm point factory setting restore display 2 processing	Create character data corresponding to display 2.	
req[11-9-1-6]	Alarm point factory setting restore processing	Perform alarm point factory setting restore processing	Load factory default data (alarm point) of FRAM. Turnon FRAM write start flag.	
req[11-9-2-1]	FRAM reset alarm SUM calculation result	Perform FRAM reset alarm SUM calculation	1. Reset watchdog timer. 2. Perform FRAM reset alarm SUM calculation. 3. Reset the watchdog timer. 4. FRAM reset alarm Returns the result of SUM calculation.	
	FRAM reset alarm point data is	FRAM reset Alarm point data is divided into	Place the inverted value of FRAM_DATA in the fram_back.	
req[11-9-2-2]	divided into specified bytes and written	specified bytes and written	Initialize pointer. Specify the side to be written. Write data. In addition, if there is a remainder less than M_FRAM_STACK_SIZE, write data.	
			Writing the write count. Return data write.	
req[11-9-2-3]	FRAM reset alarm point update processing	Perform FRAM reset alarm point update processing	Substitute the FRAM setting data size. Substitute the program number. Gopy the program number.	
req[11-9-2-4]	Alarm point setting display processing at reset	Display processing of alarm point setting at reset	Check SUM Üpdate. Create character data corresponding to reset alarm point setting.	
	Alarm point setting end processing at reset	Perform end processing of alarm point setting at reset	Reset each alarm point.	
req[11-9-2-5]	at reset		Turnon the FRAM error flag. Confirm whether resetting of alarm point can be executed.	
req[12-1-1-1]	Gas test display processing	Perform a gas test display process	Display concentration for gas test. Create character data corresponding to gas test.	
req[12-2-1-1]	Check if sensor change date ESCAPE display	Sensor exchange date setting Confirm whether ESCAPE display is displayed	When the item number is 6, turn the judgment result ON. Returns the judgment result.	
	Sensor replacement date setting display processing	Perform sensor replacement date setting display processing	Acquire date and time data. Create character data corresponding to sensor replacement date setting.	
req[12-2-1-2]	display processing	риссевану	 Create character data corresponding to sensor replacement date setting. Create character data corresponding to sensor replacement date setting. Change the numerical value corresponding to sensor change date setting to character (SHORT) data. 	
req[12-2-1-3]	Sensor replacement date setting gas selection display processing	Perform sensor replacement date setting gas	Create character data corresponding to the sensor exchange date setting gas.	
req[12-2-2-1]	Sensor replacement date setting	selection display processing Perform sensor replacement date setting end	Acquire date and time data. Output was month day.	
-	end processing Sensor replacement date setting	processing Perform sensor replacement date setting gas	Output year, month, day. Initialize item number.	
req[12-2-2-2]	gas selection start processing Sensor replacement date setting	selection start processing Perform sensor replacement date setting display	Turnoff up / down numerical value setting. In If the up / down change is OFF, carry out the following processing 2 to 3.	
req[12-2-2-3]	display item selection processing	item selection processing	 If the item number is larger by 1 than the maximum value, the item number is initialized. If the item number is smaller than the value obtained by adding 1 to the maximum value, 	
rea[13-1-1-1]		Perform channel port number correspondence	1 is added to the item number. 1. Set the channel port number correspondence.	
- 11 - 2	setting I/O port initialization processing	setting Initialize the I/O port	1. Initialize the I/O port.	
req[13-1-1-2]	(main MCU) I/O port initialization processing	Initialize the VO port	Initialize the I/O port.	
req[13-1-1-3] req[13-1-1-4]	(sensor MCU) Port setting initialization processing	Perform port setting initialization processing	Initialize the NO port. I. Initialize port settings.	
req[13-1-1-5]	USB port acquisition processing	Perform USB port acquisition processing	Initialize the port ON/OFF flag. When the USB connection confirmation port is HI, turn ON the port ON/OFF flag.	
req[13-2-1-1]			Return the port ON/OFF flag.	
.oq[10 Z-1-1]	SUM value acquisition processing	Perform SUM value acquisition processing	Return the SUM value.	
req[13-2-1-2]	ROM check processing	Perform ROM check processing	Return the SUM value. Calculate the difference between the check end address and the check start address. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. Return baseaum.	
req[13-2-1-2]		Perform ROM check processing Perform ROM value call processing	Return the SUM value. Calculate the difference between the check end address and the check start address. If the difference result is 0 or more, put that value in the base sum and subtract the difference result.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-5]	ROM check processing ROM value call processing SUM value call processing Version value call processing	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform version value call processing	Return the SUM value. Return the SUM value. Return the SUM selection between the check end address and the check start address. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. Return basesum. Return the ROM value. Return the SUM value. Return the SUM value. Return the SUM value. Return the Value to the data buffer.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6]	ROM check processing ROM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform version value call processing Substitute the ROM number of RL78 Substitute the SUM value of RL78	Return the SUM value. Return the SUM value. Return the SUM value content to the check end address and the check start address. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. Return basesum. Return the ROM value. Return the SUM value of RT8. Require the ROM number of the RT8. Require SUM value of RT8.	
req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-7] req[13-2-1-8]	ROM check processing ROM value call processing SUM value call processing SUM value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 Substitution of SUR version number	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform version value call processing Substitute the ROM number of RL78 Substitute the SUM value of RL78 Substitution of RL78 version number Perform interrupt processing of 10 msec of SUM	1. Return the SUM value. 1. Galoute the difference result is 0 or more, put that value in the base sum and subtract the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the SUM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Acquire the VOM number of the R78. 1. Copy the version value of R78. 1. Copy the version value of R78.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6]	ROM check processing ROM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number Interrupt processing of 10 msec of SUM calculation of RL78	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the ROM number of RL78 Substitute the SUM value of RL78 Substitution of RL78 version number Perform interrupt processing of 10 msec of SUM calculation of RL78	1. Return the SUM value. 1. Galculate the difference between the check end address and the check start address. 2. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the SUM value. 1. Copy the version value to the data buffer. 1. Acquire SUM value of R78. 1. Acquire SUM value of R78. 1. Acquire version value of R78. 1. Topy the version value of R78. 1. Topy the version value of R78. 1. If the value of VR98. 1. If the value count is counted down.	
req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-7] req[13-2-1-8]	ROM check processing ROM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of RU78 Substitution of RL78 version number Interrupt processing of 10 mse of SUM calculation of RL78 RL78 SUM value acclulation transmission permission processing	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Substitution to RL78 Substitution of RL78 Substitution of RL78 version number Perform interrupt processing of 10 msec of SUM calculation of RL78 Perform interrupt processing of 10 msec of SUM calculation of RL78	1. Return the SUM value. 1. Calculate the difference between the check end address and the check start address. 2. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the ROM value. 1. Acquire the ROM ratube to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of the R78. 1. Acquire SUM value of the R78. 1. Acquire the ROM number of the R78. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater but of value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-5] req[13-2-1-6] req[13-2-1-7] req[13-2-1-8]	ROM check processing ROM value call processing SUM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number Interrupt processing of 10 msec of SUM calculation of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM accludation	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM number of RL78 Substitute the SUM value of RL78 Substitute the SUM value of RL78 Substitute the SUM value of RL78 Perform internat processing of 10 msec of SUM calculation of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Confirm flag for stopping ArD acquisition of RL78 and starting SUM calculation	1. Return the SUM value. 1. Galoute the difference result is 0 or more, put that value in the base sum and subtract the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the SUM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Acquire sum value of R78. 1. In the value of R78. 1. In the value of R78. 1. Copy the version value of R78. 1. In the value of R78. 1. The value of R78. 1. The value of R78. 1. The value of R78. 2. The value of R78. 3. The value of R78. 4. Return the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 3. Return permission flag. 1. Return the calculation phase of the SUM value.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-7] req[13-2-1-8] req[13-2-1-0]	ROM check processing ROM value call processing SUM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of RL78 version number Interrupt processing of 10 mse of SUM calculation of RL78 L78 SUM value actualisation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM calculation Completion confirmation end processing of SUM value calculation of RL78	Perform ROM value call processing Perform ROM value call processing Perform SUM value call processing Perform version value call processing Substitute the ROM number of RL78 Substitution of RL78 version number Perform interrupt processing of 10 msec of SUM calculation of RL78 Perform interrupt processing of 10 msec of SUM calculation of RL78 Perform interrupt of RL78 Confirm flag for stopping A/D acquisition of RL78 Confirm flag for stopping A/D acquisition of RL78 Perform completion confirmation end processing of SUM value of RL78	1. Return the SUM value. 1. Calculate the difference between the check end address and the check start address. 2. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the ROM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greate than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is operate than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is operated own. 1. When the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 1. Return the calculation of the SUM value.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-5] req[13-2-1-6] req[13-2-1-6] req[13-2-1-9] req[13-2-1-10]	ROM check processing ROM value call processing SUM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of SUM value calculation transmission permission processing Confirm flag for stopping AD acquisition of RL78 and starting SUM calculation Completion confirmation end processing of SUM value calculation Completion confirmation end	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform version value call processing Substitute the ROM number of RL78 Substitute the ROM value of RL78 Substitution of RL78 version number Perform interrupt processing of 10 msec of SUM calculation of RL78 version processing for calculation of SUM value of RL78 Confirm flag for stopping ATO acquisition of RL78 Confirm flag for stopping ATO acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing	1. Return the SUM value. 1. Galoute the difference result is 0 or more, put that value in the base sum and subtract the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the SUM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Acquire sum value of R78. 1. In the value of R78. 1. In the value of R78. 1. Copy the version value of R78. 1. In the value of R78. 1. The value of R78. 1. The value of R78. 1. The value of R78. 2. The value of R78. 3. The value of R78. 4. Return the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 3. Return permission flag. 1. Return the calculation phase of the SUM value.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-5] req[13-2-1-7] req[13-2-1-7] req[13-2-1-10] req[13-2-1-11]	ROM check processing ROM value call processing SUM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number Interrupt processing of 10 mose of SUM calculation of RL78 Confirm flag for stopping AD acquisition of RL78 and starting SUM calculation Completion confirmation end processing of SUM value calculation of RL78 RL78 SUM value calculation standby	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the ROM number of RL78 Substitute the SUM value of RL78 Substitute the SUM value of RL78 Substitute the SUM value of RL78 Substitution of RL78 version number Perform interrupt processing of 10 mace of SUM calculation of RL78 Confirm flag for suppring A/D acquisition of RL78 and starting SUM calculation Perform completion confirmation and processing of SUM value calculation of SUM value of SUM value of SUM value calculation of SUM value calculation of SUM value calculation of SUM value calculation of SUM value of SUM value	1. Return the SUM value. 1. Calculate the difference between the check end address and the check start address. 2. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the ROM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greate than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is operate than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is operated own. 1. When the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 1. Return the calculation of the SUM value.	
req[13-2-1-2] req[13-2-1-4] req[13-2-1-4] req[13-2-1-4] req[13-2-1-7] req[13-2-1-7] req[13-2-1-7] req[13-2-1-10] req[13-2-1-10] req[13-2-1-11]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number interrupt processing of 10 maec of SUM calculation of RL78 RL78 SUM value calculation transmission permission processing of Confirm flag for stopping A/D acquisition of RL78 and starting SUM calculation Completion confirmation end processing of SUM value calculation of RL78 RL78 SUM value calculation standby end processing of SUM value calculation of RL78 RL78 SUM value calculation standby end processing	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transmission permission processing for calculation of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78	1. Return the SUM value. 1. Calculate the difference between the check end address and the check start address. 2. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the ROM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greate than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is operate than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is operated own. 1. When the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 1. Return the calculation of the SUM value.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-VALUE of READ VALUE of READ Substitution of SUM value of READ SUM calculation of READ READ READ SUM calculation of READ READ SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of READ READ SUM value calculation standby ord processing SUM calculation start processing SUM calculation start processing SUM calculation start processing of READ	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Confirm flag for stopping AVD acquisition of RL78 and starting SUM calculation Perform completion confirmation and processing of SUM value calculation of RL78 Perform TRTS SUM value of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform TRTS SUM value calculation start confirmation end processing of Perform RL78 SUM value calculation start confirmation end processing Perform RL78 SUM value calculation start confirmation end processing of RL78 Perform SUM calculation start processing of RL78 Perform GRTS SUM value calculation start confirmation end processing Perform SUM calculation start processing of RL78 Perform auddress setting of FRAM data for main	1. Return the SUM value. 1. Galoute the difference resout is 0 or more, put that value in the base sum and subtract the difference resout is 0 or more, put that value in the base sum and subtract the difference resout is 0 or more, put that value in the base sum and subtract the difference resource. 1. Return the ROM value. 1. Return the SUM value. 1. Copy the version value to the data buffer. 1. Acquire SUM value of R78. 1. Acquire SUM value of R78. 1. Acquire SUM value of R78. 1. Togy the version value of R78. 2. The value of VR9. 3. The value of VR9. 3. The base value of VR9. 3. The value of VR9. 4. The value of VR9. 5. The value of VR9. 5. Return permission flag. 6. Return permission flag. 7. Return the calculation of the SUM value. 7. Stop calculating the sum value. 8. Stop calculating the SUM value. 9. Walt for calculation of the SUM value. 9. Walt for calculation of the SUM value. 9. Walt for calculation of the SUM value. 9. When the calculation of the SUM value is stopped, the standby count is maximized and	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value call processing SUB-value of RL78 Substitution of SUM value of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM acticulation Confirm flag for stopping A/D acquisition of RL78 and starting SUM acticulation Confirm flag for stopping A/D acquisition of RL78 RL78 SUM value calculation standby ord processing SUM value calculation standby ord processing SUM calculation start processing SUM calculation start processing of RL78 SUM value calculation start confirmation end processing SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transprocessing of 10 msec of SUM calculation of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Confirm flag for stopping A/D acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing of PRAM value calculation start confirmation end processing Perform SUM value calculation start processing Perform SUM value calculation start processing Perform BUM value calculation start processing Perform BUM valuation start processing of RL78 Perform address setting of FRAM data for main body data	1. Return the SUM value. 1. Calculate the difference between the check end address and the check start address. 2. If the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the SUM value. 1. Capy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Capy the version value of the RL78 microcomputer to the data buffer. 1. If the value count is greate than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greate than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 1. Return the calculating the SUM value. 1. Finish calculating the sum value. 1. Stop calculating the SUM value. 1. Wait for calculating the SUM value. 1. Wait for calculation of the SUM value. 1. When the calculation of the SUM value is stopped, the standby count is maximized and the calculation of the SUM value is started.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value of RL78 Substitution of SUM value of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM actualistion of RL78 and starting SUM actualistion of RL78 Confirm flag for stopping A/D acquisition of RL78 Confirm flag for stopping A/D acquisition of RL78 Confirm flag for stopping A/D acquisition of RL78 RL78 SUM value calculation standby ord processing SUM calculation start processing SUM calculation start processing of RL78 SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address acquisition processing of FRAM data for main body data Address acquisition processing of	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transmission processing of 10 msec of SUM calculation of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform RL78 SUM value calculation start confirmation end processing Perform SUM value calculation start confirmation end processing Perform SUM value calculation start confirmation end processing Perform SUM value calculation start confirmation end processing Perform SUM value calculation start processing of RL78 Perform address setting of FRAM data for main body data Perform address setting processing of FRAM data for main body data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0. Are the subtract the difference result is 3. Return basesum. 1. Return the ROM value. 1. Return the SOM value. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of the R178 microcomputer to the data buffer. 1. If the value SUM value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count fit operate than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 1. Return the calculation of the SUM value. 1. Finish calculating the sum value. 1. Stop calculating the SUM value. 1. Wait for calculation of the SUM value. 1. When the calculation of the SUM value. 1. When the calculation of the SUM value. 1. When the calculation of the SUM value is stropped, the standby count is maximized and the calculation of the SUM value is stropped, the standby count is maximized and the calculation of the SUM value is stropped. 1. Process address setting of FRAM data for body data.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 SUB-value of RL78 SUM-value processing of 10 mage of SUM calculation of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM acticulation Completion confirmation end processing of SUM value calculation of RL78 RL78 SUM value calculation standby end processing SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address setting processing of FRAM data for main body data Address setting processing of PRAM data for main body data Address restring processing of concentration calculation data Processing or setting processing of concentration calculation data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transmission permission processing for advantage of the value of RL78 Perform transmission permission processing for advantage of SUM value of RL78 Confirm flag for subpring AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Put SUM value calculation start confirmation end processing Perform RL78 SUM value calculation start confirmation end processing Perform SUM calculation start processing of RL78 Perform address setting processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform address acquisition processing of concentration calculation data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0. Return baseoum. 1. Return the ROM value. 1. Return the SOM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Acquire SUM value of the R78. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire the SUM value is the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 3. Return the calculation of the SUM value. 1. Finish calculating the sum value. 1. Stop calculating the SUM value. 1. Wait for calculation of the SUM value. 1. When the calculation of the SUM value. 1. When the calculation of the SUM value. 1. Process address setting of FRAM data for body data. 1. Return the address of the st_Detector_Info. 1. Return data for concentration calculation. 1. Acquire an alarm point.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number laterupy processing of 10 mes of SUM value of RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM calculation of RL78 RL78 SUM value calculation stard processing of SUM value calculation start of RL78 RL78 SUM value calculation stard processing of SUM value calculation stard processing of RL78 SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address acquisition processing of FRAM data set main body data Address setting processing of concentration calculation data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Substitute the SUM value of RL78 Substitution of RL78 version number Perform interrupt processing of 10 msec of SUM calculation of RL78 Confirm flag for stopping A/D acquisition of RL78 Perform completion confirmation end processing of SUM value calculation of RL78 Perform RL78 SUM value calculation SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform development of RL78 Perform address setting of FRAM data for main body data Perform address setting processing of concentration calculation data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result. 2. If the difference result is 0 or more, put that value in the base surn and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the ROM value. 1. Capy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Acquire SUM value of R78. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Step to the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 3. Return the calculation of the SUM value. 4. Finish calculating the sum value. 5. Is top calculating the sum value. 6. Stop calculating the SUM value. 7. Wait for calculation of the SUM value. 7. We account of the SUM value. 7. Return the address of the st_Detector_Info. 7. Return data for concentration calculation. 7. Acquire an alarm point. 7. Acquire an alarm point. 7. Acquire an alarm point. 7. Acquire the callivation concentration value. 7. Acquire the callivation that the started. 7. Acquire the CAL concentration value. 7. Acquire the callivation of the SUM value is started. 8. Acquire the CAL concentration value.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 SUB-value of RL78 SUM-value processing of 10 mage of SUM calculation of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM acticulation Completion confirmation end processing of SUM value calculation of RL78 RL78 SUM value calculation standby end processing SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address setting processing of FRAM data for main body data Address setting processing of PRAM data for main body data Address restring processing of concentration calculation data Processing or setting processing of concentration calculation data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transmission permission processing for advantage of the value of RL78 Perform transmission permission processing for advantage of SUM value of RL78 Confirm flag for subpring AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Put SUM value calculation start confirmation end processing Perform RL78 SUM value calculation start confirmation end processing Perform SUM calculation start processing of RL78 Perform address setting processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform address acquisition processing of concentration calculation data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the ROM value. 1. Capy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire sult was count is greater than 0 at the start, wait, or end of the calculation of the SUM value is start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 3. Return the calculation of the SUM value. 4. Stop calculating the sum value. 5. Finish calculating the sum value. 6. Stop calculating the sum value. 7. When the calculation of the SUM value is stopped, the standby count is maximized and the calculation of the SUM value is started. 7. Process address setting of FRAM data for body data. 7. Return the address of the st. Detector, Info. 7. Acquire an atem point. 7. Acquire the callivation concentration value. 7. Acquire the callivation concentration value. 7. Acquire the preparture data at zero point calibration. 7. Acquire the callivation concentration value.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 SUB-value of RL78 SUM-value processing of 10 mage of SUM calculation of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM acticulation Completion confirmation end processing of SUM value calculation of RL78 RL78 SUM value calculation standby end processing SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address setting processing of FRAM data for main body data Address setting processing of PRAM data for main body data Address restring processing of concentration calculation data Processing or setting processing of concentration calculation data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transmission permission processing for advantage of the value of RL78 Perform transmission permission processing for advantage of SUM value of RL78 Confirm flag for subpring AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Put SUM value calculation start confirmation end processing Perform RL78 SUM value calculation start confirmation end processing Perform SUM calculation start processing of RL78 Perform address setting processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform address acquisition processing of concentration calculation data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the ROM value. 1. Return the SUM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of ST8. 1. Acquire SUM value of the R178 microcomputer to the data buffer. 1. If the value SUM value of the R78. 1. Acquire the ROM number of the R78. 1. Every the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 3. Return the calculating the sum value. 4. Finish calculating the SUM value. 5. Stop calculating the SUM value. 5. Stop calculating the SUM value. 6. When the calculation of the SUM value is stopped, the standby count is maximized and the calculation of the SUM value is started. 7. Process address setting of FRAM data for body data. 7. Return data for concentration calculation. 7. Return data for concentration calculation. 7. Acquire an alarm point. 7. Acquire the calibration concentration value. 7. Acquire the span coefficient.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 SUBstitution of RL78 version number interrupt processing of 10 maec of SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM acquisition of RL78 and starting SUM calculation Completion confirmation end processing SUM value calculation of RL78 RL78 SUM value calculation standby end processing of SUM value calculation start confirmation end processing SUM calculation start processing SUM calculation start processing of RL78 SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address setting processing of FRAM data for main body data Address restring processing of concentration calculation data Processing or setting processing of concentration calculation data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transmission permission processing for advantage of the value of RL78 Perform transmission permission processing for advantage of SUM value of RL78 Confirm flag for subpring AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Put SUM value calculation start confirmation end processing Perform RL78 SUM value calculation start confirmation end processing Perform SUM calculation start processing of RL78 Perform address setting processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform address acquisition processing of concentration calculation data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base sum and subtract the difference result is 0 or more, put that value in the base sum and subtract the difference result is 0 or more, put that value in the base sum and subtract the difference result is 0. Return basesum. 1. Return the ROM value. 1. Return the SOM value. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of STR. 1. Acquire SUM value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 1. Finish calculating the sum value. 1. Finish calculating the sum value. 1. Stop calculating the SUM value. 1. Wait for calculation of the SUM value. 1. When the calculation of the SUM value. 1. When the calculation of the SUM value. 1. Horouse address setting of FRAM data for body data. 1. Return data for concentration value. 2. Acquire the calibration concentration value. 3. Acquire the calibration concentration value. 4. Acquire the calibration concentration value. 5. Acquire the calibration concentration. 6. Obtain zero coefficients. 7. Acquire calibration concentration. 8. Acquire date calibration concent	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 SUM calculation of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM calculation Completion confirmation end processing SUM value calculation start of SUM value calculation Completion confirmation and processing of SUM value calculation start confirmation and processing RL78 SUM value calculation start one of the substitution start processing of RL78 Address setting processing of FRAM data for main body data Address acquisition processing of FRAM data for main body data Address setting processing of concentration calculation data Processing for setting gas data of nonvolatile memory	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transmission processing of 10 msec of SUM calculation of RL78 Perform transmission promission processing for calculation of SUM value of RL78 Confirm flag for stopping A/D acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of SUM value of RL78 Perform RL78 SUM value of RL78 Perform RL78 SUM value calculation of RL78 Perform RL78 SUM value calculation of RL78 Perform RL78 SUM value calculation of RL78 Perform SUM calculation of RL78 Perform SUM calculation of RL78 Perform SUM calculation start processing of RL78 Perform address setting of FRAM data for main body data Perform address setting processing of concentration calculation data Perform address setting processing of concentration calculation and acculation data Perform setting process of gas data of nonvolatile memory	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0. Return that SUM value. 1. Return the SUM value. 1. Return the SUM value. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Acquire SUM value of R78. 1. Capy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 1. Finish calculating the sum value. 1. Finish calculating the sum value. 1. Stop calculating the SUM value. 1. Wait for calculation of the SUM value. 1. When the calculation of the SUM value. 1. When the calculation of the SUM value is stropped, the standby count is maximized and the calculation of the SUM value is stropped. 1. Return data for concentration calculation. 1. Acquire an alarm point. 2. Acquire the calibration concentration value. 3. Acquire the calibration concentration value. 4. Acquire the calibration concentration value. 5. Acquire the calibration concentration value. 6. Acquire the calibration concentration value. 7. Acquire an alarm point. 7. Acquire an alarm point. 7. Acquire an alarm point. 8. Acquire the CAL concentration value. 8. Acquire the calibration concentration value. 9. Acquire calibration	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 SUBstitution of RL78 version number interrupt processing of 10 maec of SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM acquisition of RL78 and starting SUM calculation Completion confirmation end processing SUM value calculation of RL78 RL78 SUM value calculation standby end processing of SUM value calculation start confirmation end processing SUM calculation start processing SUM calculation start processing of RL78 SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address setting processing of FRAM data for main body data Address restring processing of concentration calculation data Processing or setting processing of concentration calculation data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transmission permission processing for advantage of the value of RL78 Perform transmission permission processing for advantage of SUM value of RL78 Confirm flag for subpring AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Put SUM value calculation start confirmation end processing Perform RL78 SUM value calculation start confirmation end processing Perform SUM calculation start processing of RL78 Perform address setting processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform address acquisition processing of concentration calculation data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0. Return the SUM value. 1. Return the SUM value. 1. Return the SUM value. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greate then 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greate then 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 1. Return the calculation of the SUM value. 1. Finish calculating the sum value. 1. Stop calculating the sum value. 1. Wait for calculation of the SUM value. 1. Water the calculation of the SUM value. 1. When the calculation of the SUM value. 1. Process address setting of FRAM data for body data. 1. Return data for concentration calculation. 1. Acquire an alarm point. 2. Acquire the calculation concentration value. 3. Acquire the calculation concentration value. 4. Acquire the calculation concentration value. 5. Acquire the setting coefficients. 7. Acquire the setting coefficients. 7. Acquire the setting coefficients. 7. Acquire the measurement gas type group. 11. Acquire the setting coefficients. 7. Acquire the measurement gas type group. 11. Acquire the measurement gas type group. 12. Acquire the measurement gas type group. 13. Acquire the measurement gas type group. 14. Acquire the measurement quale type group. 15. Acquire the measurement quale type group. 16. Acquire the measurement quale type group. 17. Acquire the measurement quale type group.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number interrupt processing of 10 msec of SUM value calculation of RL78 RL78 SUM value calculation processing confirmation of RL78 and starting SUM accludation of RL78 Confirm flag for stopping A/D acquisition of RL78 and starting SUM accludation of RL78 Confirm flag for stopping A/D acquisition of RL78 RL78 SUM value calculation standby end processing of SUM value calculation start processing SUM calculation start processing of RL78 SUM calculation start processing of RL78 Address acquisition processing of FRAM data for main body data Address acquisition processing of FRAM data for main body data Address acquisition processing of PRAM data for main body data Address acquisition processing of PRAM data for main body data Address acquisition processing of concentration calculation data Processing of setting processing of concentration calculation data Processing for setting processing of concentration calculation data Processing for setting processing of concentration calculation data Processing for setting gas data of nonvolatile memory	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transpring processing of 10 mises of SUM calculation of RL78 Perform transpring processing of 10 mises of SUM value of SUM value of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform and processing of RL78 Perform address setting processing of RL78 Perform and dress acquisition processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform and processing of concentration calculation data Perform and processing of setting processing of concentration calculation data Perform address acquisition processing of concentration calculation data Perform address acquisition processing of processing perform address acquisition processing of processing perform address acquisition processing of perform address acquisition processing performance perf	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value. 1. Return the SUM value. 1. Return the SUM value. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greate then 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greate then 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 1. Return the calculation of the SUM value. 1. Finish calculating the sum value. 1. Stop calculating the sum value. 1. Wait for calculation of the SUM value. 1. Wat for calculation of the SUM value. 1. When the calculation of the SUM value. 1. Process address setting of FRAM data for body data. 1. Return the address of the st_Detector_info. 1. Return data for concentration calculation. 1. Acquire the CAL concentration value. 2. Acquire the calibration concentration value. 3. Acquire the calibration concentration value. 4. Acquire the calibration concentration value. 5. Acquire the setting coefficients. 7. Acquire the measurement gas type group. 11. Acquire the wassurement gas type group. 12. Acquire the measurement gas type group. 13. Acquire the measurement gas five group. 14. Acquire the measurement and minimum values of span coefficients. 2. Acquire the measurement and minimum values of span coefficients. 3. Acquire the measurement and minimum values of span coefficients.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number interrupt processing of 10 msec of SUM value calculation of RL78 RL78 SUM value calculation processing confirmation of RL78 and starting SUM accludation of RL78 Confirm flag for stopping A/D acquisition of RL78 and starting SUM accludation of RL78 Confirm flag for stopping A/D acquisition of RL78 RL78 SUM value calculation standby end processing of SUM value calculation start processing SUM calculation start processing of RL78 SUM calculation start processing of RL78 Address acquisition processing of FRAM data for main body data Address acquisition processing of FRAM data for main body data Address acquisition processing of PRAM data for main body data Address acquisition processing of PRAM data for main body data Address acquisition processing of concentration calculation data Processing of setting processing of concentration calculation data Processing for setting processing of concentration calculation data Processing for setting processing of concentration calculation data Processing for setting gas data of nonvolatile memory	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transpring processing of 10 mises of SUM calculation of RL78 Perform transpring processing of 10 mises of SUM value of SUM value of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform and processing of RL78 Perform address setting processing of RL78 Perform and dress acquisition processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform and processing of concentration calculation data Perform and processing of setting processing of concentration calculation data Perform address acquisition processing of concentration calculation data Perform address acquisition processing of processing perform address acquisition processing of processing perform address acquisition processing of perform address acquisition processing performance perf	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result: 3. Return baseaum. 1. Return the ROM value. 1. Return the ROM value. 1. Return the SUM value. 1. Capy the version value to the data buffer. 1. Acquire the ROM number of the RT8. 1. Acquire SUM value of RT8. 1. Acquire SUM value of RT8. 1. Acquire SUM value of the RT8. 1. Acquire the ROM number of the RT8. 1. Acquire was count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 3. Return the calculation of the SUM value. 1. Step calculating the sum value. 1. When the calculation of the SUM value is stopped, the standby count is maximized and the calculation of the SUM value is started. 1. Process address setting of RNAM data for body data. 1. Return data for concentration or the SUM value is started. 1. Return data for concentration value. 2. Acquire the callibration concentration value. 3. Acquire the CRAL concentration value. 4. Acquire the CRAL concentration value. 5. Acquire the properties that are point calculation. 7. Acquire the properties are the started of the SUM value is concentration. 8. Acquire the measurement gas type group. 11. Acquire the measurement and minimum values of AR coefficients. 4. Acquire the measurement and minimum values of AR coefficients. 4. Acquire the measurement and minimum values of AR coefficients. 4. Acquire the measurement and minimum values of AR coefficients.	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number interrupt processing of 10 msec of SUM value calculation of RL78 RL78 SUM value calculation processing confirmation of RL78 and starting SUM accludation of RL78 Confirm flag for stopping A/D acquisition of RL78 and starting SUM accludation of RL78 Confirm flag for stopping A/D acquisition of RL78 RL78 SUM value calculation standby end processing of SUM value calculation start processing SUM calculation start processing of RL78 SUM calculation start processing of RL78 Address acquisition processing of FRAM data for main body data Address acquisition processing of FRAM data for main body data Address acquisition processing of PRAM data for main body data Address acquisition processing of PRAM data for main body data Address acquisition processing of concentration calculation data Processing of setting processing of concentration calculation data Processing for setting processing of concentration calculation data Processing for setting processing of concentration calculation data Processing for setting gas data of nonvolatile memory	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transpring processing of 10 mises of SUM calculation of RL78 Perform transpring processing of 10 mises of SUM value of SUM value of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform and processing of RL78 Perform address setting processing of RL78 Perform and dress acquisition processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform and processing of concentration calculation data Perform and processing of setting processing of concentration calculation data Perform address acquisition processing of concentration calculation data Perform address acquisition processing of processing perform address acquisition processing of processing perform address acquisition processing of perform address acquisition processing performance perf	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result: 3. Return baseoum. 1. Return the ROM value. 1. Return the ROM value. 1. Return the SUM value. 1. Capy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire sUM value of R78. 1. Acquire SUM value of R78. 1. Acquire SUM value of R78. 1. Capy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 3. Return permission flag. 4. Return the calculation of the SUM value. 4. Start permission flag. 5. Return the calculation of the SUM value. 5. Start permission flag. 6. Return data for concentration of the SUM value is started. 6. Process address setting of FRAM data for body data. 6. Process address setting of FRAM data for body data. 6. Return the address of the st_Detector_Info. 6. Chain zero coefficients. 6. Acquire the callivation concentration value. 6. Acquire the CAL concentration value. 6. Acquire the the SUM value is concentration. 6. Obtain zero coefficients. 6. Acquire the measurement gas type group. 6. Acquire the measurement gas type group. 7. Acquire the measurement grossing of concentration calculation data. 7. Acquire the measurement grossing of concentration calculation. 8. Acquire the measurement gas type group. 11. Acquire the measurement gas type group. 12. Acquire the measurement gas type group. 13. Acquire the measurement gas type group. 14. Acquire the measurement gas type group. 15. Acquire the measurement and minimum values of span coefficients. 8. Acquire the measurement and minimum values of span coefficients. 8. Acquire the measurement and m	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUB-value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number interrupt processing of 10 msec of SUM value calculation of RL78 RL78 SUM value calculation processing confirmation of RL78 and starting SUM accludation of RL78 Confirm flag for stopping A/D acquisition of RL78 and starting SUM accludation of RL78 Confirm flag for stopping A/D acquisition of RL78 RL78 SUM value calculation standby end processing of SUM value calculation start processing SUM calculation start processing of RL78 SUM calculation start processing of RL78 Address acquisition processing of FRAM data for main body data Address acquisition processing of FRAM data for main body data Address acquisition processing of PRAM data for main body data Address acquisition processing of PRAM data for main body data Address acquisition processing of concentration calculation data Processing of setting processing of concentration calculation data Processing for setting processing of concentration calculation data Processing for setting processing of concentration calculation data Processing for setting gas data of nonvolatile memory	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transpring processing of 10 mises of SUM calculation of RL78 Perform transpring processing of 10 mises of SUM value of SUM value of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform Processing for ending waiting for SUM value calculation of RL78 Perform and processing of RL78 Perform address setting processing of RL78 Perform and dress acquisition processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform and processing of concentration calculation data Perform and processing of setting processing of concentration calculation data Perform address acquisition processing of concentration calculation data Perform address acquisition processing of processing perform address acquisition processing of processing perform address acquisition processing of perform address acquisition processing performance perf	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result: 3. Return the ROM value. 1. Return the ROM value. 1. Return the ROM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Acquire SUM value of R78. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wat, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wat, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 3. Return the calculation of the SUM value. 4. Finish calculating the sum value. 5. If the value is a start of the SUM value is supped, the standby count is maximized and the calculation of the SUM value is started. 5. Process address setting of FRAM data for body data. 6. Process address setting of FRAM data for body data. 6. Return data for concentration value. 6. Acquire the callivation concentration value. 7. Acquire the callivation concentration value. 8. Acquire the proparture data at zero point callibration. 8. Acquire the measurement date and time. 9. Acquire the measurement gas type group. 9. 1. Acquire the measurement and minimum value of the zero coefficients. 9. Acquire the measurement and minimum value o	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-10] req[13-2-1-10] req[13-2-1-10] req[13-2-1-12] req[13-2-1-13] req[13-2-1-13] req[13-2-1-14] req[13-2-1-15] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUBstatitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number interrupt processing of 10 msec of SUM value calculation runsmission permission of RL78 RL78 SUM value calculation runsmission permission of RL79 Confirm flag for stopping A/D acquisition of RL78 and starting SUM calculation Completion confirmation end processing SUM value calculation of RL78 RL78 SUM value calculation standby end processing of SUM value calculation stard value calculation start processing SUM calculation start processing SUM calculation start processing of RL78 SUM calculation start processing of FRAM data for main body data Address acting processing of FRAM data for main cody data Address value in processing of Concentration calculation data Processing or setting processing of concentration calculation data Gas data setting processing of concentration calculation data Address setting processing of concentration calculation data Address setting processing of concentration calculation data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transpring processing of 10 mises of SUM calculation of SUM value of RL78 Perform transpring processing for calculation of SUM value of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Perform RL78 SUM value calculation start confirmation end processing Perform RL78 SUM value calculation start processing of RL78 Perform address setting of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform address acquisition processing of concentration calculation data Perform address acquisition processing of concentration calculation data Perform address setting processing of concentration calculation data Perform address setting processing of concentration calculation data Perform address setting processing of concentration calculation data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result. 3. Return baseaum. 1. Return the ROM value. 1. Return the SUM value. 1. Copy the version value to the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of ST8. 1. Acquire SUM value of ST8. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 1. Return the calculation of the SUM value. 1. Finish calculating the sum value. 1. Stop calculating the sum value. 1. When the calculation of the SUM value. 1. When the calculation of the SUM value. 1. When the calculation of the SUM value. 1. Process address setting of FRAM data for body data. 1. Return the address of the st. Detector_Info. 1. Return data for concentration calculation. 1. Acquire an alarm point. 2. Acquire the calibration concentration value. 3. Acquire the Calculation concentration value. 3. Acquire the calibration concentration value. 4. Acquire the calibration concentration value. 5. Acquire the calibration concentration value. 6. Acquire the calibration concentration value. 7. Acquire the maximum and minimum values of span coefficients. 8. Acquire the maximum and minimum values of span coefficients. 9. Acquire the maximum and minimum values of span coefficients. 9. Acquire the maximum and minimum values of span coefficients. 9. Acquire the maximum and minimum values of span coefficients. 9. Acquire the maximum and minimum values of span coefficients. 9. Acquire the maximum and minimum values of	
req[13.2-1-2] req[13.2-1-3] req[13.2-1-4] req[13.2-1-6] req[13.2-1-6] req[13.2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing Version value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM actualistion of RL78 and starting SUM ACTION Value calculation start processing of SUM value calculation start processing Address setting processing of FRAM data continuation and processing of SUM actualistion start processing Address setting processing of SPAM data can calculation start processing of Concentration calculation data Processing for setting gas data of nenvolatile memory Gas data setting processing of concentration calculation data Address setting processing of concentration calculation data	Perform ROM check processing Perform SOM value call processing Perform SUM value call processing Perform SUM value call processing Perform version value call processing Substitute the SUM value of RL78 Perform transmission processing of 10 msec of SUM calculation of RL78 Perform transmission processing for calculation of RU78 Confirm flag for stopping A/D acquisition of RL78 and starting SUM calculation Perform completion confirmation and processing of SUM value calculation of SUM value calculation of RL78 SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform RL78 SUM value calculation start confirmation and processing of PRAM data for main body data Perform address setting of FRAM data for main body data Perform address setting processing of concentration calculation data Perform address setting processing of concentration calculation data Perform gas data setting processing of concentration calculation data Perform gas data setting processing of concentration calculation data Perform gas data setting processing of concentration calculation data Perform address setting processing of main unit status data	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value. 1. Return the SUM value. 1. Return the SUM value. 1. Acquire the ROM number of the R78. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Copy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 3. Return the calculation of the SUM value. 4. Wait for calculating the sum value. 5. It is not calculating the sum value. 5. It is not calculating the SUM value. 7. When the calculation of the SUM value is standed. 7. Process address seating of FRAM data for body data. 7. Return the address of the st. Detector_Info. 7. Return data for concentration calculation. 7. Acquire the calibration concentration value. 7. Acquire the pagn coefficient. 7. Acquire the maximum and minimum values of span coefficients. 7. Acquire the maximum and minimum values of span coefficients. 7. Acquire the maximum and minimum values of span coefficients. 7. Acquire the maximum and minimum values of span coefficients. 7. Acquire the maximum and minimum values of span coefficients. 8. Acquire the maximum and minimum values of span coefficients. 9. Acquire	
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req[13.2-1-2] req[13.2-1-3] req[13.2-1-4] req[13.2-1-6] req[13.2-1-6] req[13.2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUBstatitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number interrupt processing of 10 msec of SUM value calculation of RL78 RL78 SUM value calculation transmission permission processing of SUM value calculation Completion on firmation and processing of SUM value calculation of RL78 RL78 SUM value calculation standby end processing of SUM value calculation of RL78 RL78 SUM value calculation standby end processing of SUM value calculation stand value calculation of RL78 SUM calculation start processing of RL78 SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address activiting processing of Concentration calculation data Processing or setting processing of concentration calculation data Processing for setting processing of concentration calculation data Address setting processing of concentration calculation data	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation Perform completion confirmation and processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Perform RL78 SUM value calculation start confirmation and processing Perform RL78 SUM value calculation start processing of RL78 Perform address setting of FRAM data for main body data Perform address setting processing of concentration calculation data Perform address acquisition processing of FRAM data for main body data Perform address setting processing of concentration calculation data Perform address setting processing of concentration calculation data Perform address setting processing of oncentration calculation data Perform address setting processing of main unit status data Perform address setting processing of fram unit status data Perform address setting processing of FRAM data for main address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base surn and subtract the difference result is 0 or more, put that value in the base surn and subtract the difference result. 3. Return baseaum. 1. Return the ROM value. 1. Return the SOM value. 1. Return the SOM value. 1. Acquire the result is 10 or more, put that value in the base surn and subtract the value in the data buffer. 1. Acquire the ROM number of the R78. 1. Acquire SUM value of R78. 1. Acquire SUM value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value, the wait count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 3. Return the calculating the SUM value. 4. Stop calculating the sum value. 5. Stop calculating the SUM value. 5. Stop calculating the SUM value. 7. When the calculation of the SUM value is started. 7. Process address seeting of FRAM data for body data. 7. Return the address of the st. Detector_Info. 7. Return data for concentration calculation. 7. Acquire the calibration concentration value. 7. Acquire the maximum and minimum values of span coefficients. 8. Acquire the maximum and minimum values of span coefficients. 9. Acquire the maximum and minimum values of span coefficients. 9. Acquire the maximum and minimum values of span coefficients. 9. Acquire the maximum and	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1] req[13-3-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing Substitution of ROM number of RL78 Substitution of SUM value of RL78 RL78 SUM value calculation transmission processing of 10 msec of SUM calculation of RL78 RL78 SUM value calculation advantages of RL78 RL78 SUM value calculation and processing of SUM value calculation of RL78 RL78 SUM value calculation standour value calculation of RL78 SUM value calculation standour value calculation of RL78 SUM value calculation standour value calculation of RL78 SUM value calculation standour value calculation standour value calculation standour value calculation of RL78 SUM calculation start processing of RL78 Address setting processing of FRAM data for main body data Address setting processing of Address or value v	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Perform transmission permission processing for calculation of SUM value of RL78 and starting SUM calculation Perform completion confirmation end processing of SUM value calculation of SUM value of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Parform RL78 SUM value calculation start confirmation end processing of Parform RL78 Perform address setting processing of RL78 Perform address setting of FRAM data for main body data Perform address acquisition processing of FRAM data for main body data Perform address setting processing of oncentration calculation data Perform address setting processing of concentration calculation data Perform address setting processing of oncentration calculation data Perform address setting processing of oncentration calculation data Perform address setting processing of oncentration calculation data Perform address setting processing of FRAM data for main unit status data Acquire the address of the gas data Performs address setting processing of FRAM data for gas data Request the start of a RAM check	1. Return the SUM value. 1. Calculate the difference result is 0 or more, put that value in the base sum and subtract the difference result is 0 or more, put that value in the base sum and subtract the difference result. 3. Return basesum. 1. Return the ROM value. 1. Return the SOM value. 1. Return the SOM value. 1. Acquire the MOM number of the R78. 1. Acquire the MOM number of the R78. 1. Acquire SUM value of ST8. 1. Acquire SUM value of ST8. 1. Acquire SUM value of ST8. 1. Capy the version value of the R178 microcomputer to the data buffer. 1. If the value count is greater than 0 at the start, wait, or end of the calculation of the SUM value is one of activation, standby, and end, turn on the permission flag. 2. Return permission flag. 2. Return permission flag. 2. Return permission flag. 3. Return the calculation of the SUM value. 4. Finish calculating the sum value. 4. Stop calculating the sum value. 5. Stop calculating the sum value. 5. It has a calculation of the SUM value is standed. 7. Process address setting of FRAM data for body data. 7. Return the address of the st. Detector_Info. 7. Return data for concentration calculation. 7. Acquire an alarm point. 7. Acquire the calibration concentration value. 7. Acquire the maximum and minimum values of pan coefficients. 7. Acquire the maximum and minimum values of pan coefficients. 7. Acquire the maximum and minimum values of pan coefficients. 7. Acquire the maximum and minimum values of pan coefficients. 7. Acquire the maximum and minimum values of pan coefficients. 7. Acquire the maximum and minimum values of pan coefficients. 7. Acquire the maximum and minimum values of pan coefficients. 7. Acquire the maximum and minimum va	
req[13-2-1-2] req[13-2-1-3] req[13-2-1-4] req[13-2-1-6] req[13-2-1-6] req[13-2-1-6] req[13-2-1-1]	ROM check processing ROM value call processing SUM value call processing SUM value call processing SUM value call processing SUBstatitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of SUM value of RL78 Substitution of RL78 version number interrupt processing of 10 msec of SUM value calculation of RL78 RL78 SUM value calculation transmission permission processing Confirm flag for stopping A/D acquisition of RL78 and starting SUM accludation Completion confirmation end processing Confirm flag for stopping A/D acquisition of RL78 AUM value calculation starting SUM value calculation of RL78 RL78 SUM value calculation stardby end processing of SUM value calculation start confirmation end processing SUM calculation start processing of RL78 SUM calculation start processing of FRAM data for main body data Address setting processing of FRAM data for main calculation data Processing or setting gas data of nonvolatile memory Gas data setting processing of concentration calculation data Address setting processing of concentration calculation data Address setting processing of main unit status data Acquisition of address of gas data Address setting processing of FRAM data for as data setting processing of FRAM data for as data setting processing of FRAM data for as data setting processing of FRAM data for gas data data for gas data data for gas data data for gas data of gas data data for gas dat	Perform ROM check processing Perform ROM value call processing Perform SUM value call processing Perform SUM value call processing Perform SUM value call processing Substitute the SUM value of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Perform transmission permission processing for calculation of SUM value of RL78 Confirm flag for stopping AID acquisition of RL78 and starting SUM calculation Perform completion confirmation and processing of SUM value calculation of RL78 Perform processing for ending waiting for SUM value calculation of RL78 Perform Perform RL78 SUM value calculation start confirmation and processing Perform RL78 SUM value calculation start processing of RL78 Perform address setting of FRAM data for main body data Perform address setting processing of concentration calculation data Perform address acquisition processing of FRAM data for main body data Perform address setting processing of concentration calculation data Perform address setting processing of concentration calculation data Perform address setting processing of oncentration calculation data Perform address setting processing of main unit status data Perform address setting processing of fram unit status data Perform address setting processing of FRAM data for main address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address setting processing of fram unit status data Perform address	1. 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Wait for calculation of the SUM value. 5. It has calculating the sum value. 5. Stop calculating the sum value. 6. When the calculation of the SUM value is stepped, the standby count is maximized and the calculation of the SUM value is started. 7. Process address setting of FRAM data for body data. 7. Return data for concentration value. 7. Acquire an atem point 2. Acquire the caltraction calculation. 7. Acquire the Calculation of the SUM value is started. 8. Acquire the CAL concentration value. 9. Acquire the CAL concentration value. 9. Acquire the perparture data at zero point calibration. 9. Acquire the span coefficients. 9. Acquire the span coefficients. 9. Acquire the span coefficients. 9. Acquire the maximum and minimum values of Alic coefficients. 9. Acquire the maximum and minimum values of Alic coefficients. 9. Acquire the maximum and minimum values of Alic coefficients. 9. Acquire the maximum and minimum values of Alic coefficients. 9. Acquire the maximum and minimum values of Alic coefficients. 9. Acquire the maximum and minimum value	

	RAM check process (main MCU)	Check RAM	Initialize the OUTPUT value with "Stop" If the RAM check phase is "process start", perform the following processes 9 to 10. If the RAM check phase is the "save area", perform the following processes 11 to 16. If the RAM check phase is the "main area", perform the following processes 17 to 23.	
			5. If the RAM check phase is "stack area", perform the following processes 24-29. 6. If the RAM check phase is "process successful", perform the following process 30. 7. If the RAM check phase is "processing failure", perform the following processes 31 to 33.	
			If the RAM check phase is other than the above processes 2 to 7, perform the following process 34. Initialize the retry counter to 0 and set the RAM check phase to "save area".	
			10. Set the OUTPUT value to "Running" 11. Perform "save RAM check process" 12. Set the RAM check phase to "Processing failed"	
			If the result of process 11 is successful, perform the following processes 14 to 15. 14. Perform "Check target RAM check initialization process" in the main area 15. Set the RAM check phase to "main area"	
req[13-3-2-3]			16. Set the OUTPUT value to "Running" 17. Perform "main RAM check processing" in the main area 18. If the result of process 16 is successful, perform the following processes 20 to 21.	
			 If the result of process 16 is neither process 18 nor calculation, perform the following process 22. Perform "Check target RAM check initialization process" in the stack area 	
			21. Set the RAM check phase to "stack area" 22. Set the RAM check phase to "Processing failed" 23. Set the OUTPUT value to "Running"	
			24. Perform "main RAM check processing" of the stack area 25. If the result of process 24 is successful, perform the following process 27. 26. If the result of process 24 is neither process 25 nor calculation, perform the following process 28.	
			27. Set the RAM check phase to "Successful processing" 28. Set the RAM check phase to "Processing failed" 29. Set the OUTPUT value to "in progress"	
			 Set the RAM check phase to "Stop processing" and set the OUTPUT value to "Normal" Set the RAM check phase to "Save area" and set the OUTPUT value to "Running". Add 1 to the retry counter, and if the value of the retry counter is 3 or more, perform the following 	
			process 33. 33. Set the RAM check phase to "Stop processing" and set the OUTPUT value to "Failed" 34. Set the RAM check phase to "Stop processing"	
req[13-3-2-4]	Check target RAM check initialization process (main MCU) Main RAM check process (main MCU)	Set the start address for RAM check Check the RAM of the specified area	Set the start address (main area: 0x00000004, stack area 0x0000EB00) Substitute the start address for the check address	
	wall NAW check process (main woo)	Check the form of the specified area	Set OUTPUT to "Running" Perform the following processes 4 to 14 for 32 bytes	
			Disable interrupts Write the check address data to the save memory Write 0x55 to the check address data	
			7. Write the check address data to confirmation buffer 1 8. Write 0xAA to the check address data 9. Write the check address data to confirmation buffer 2	
req[13-3-2-5]			 Write the data in the save memory to the data in the check address Allow interrupts 	
			12. Add 1 to the check address 13. If confirmation buffer 1 is other than 0x55 or confirmation buffer 2 is other than 0xAA, perform the following process 14.	
			14. Set OUTPUT to "Failure" and exit loop processing 3. 15. Add 32 to the starting address 16. When the start address reaches the end of the RAM to be confirmed, the following	
	Execution DAM sheet	Check the backup RAM area used when checking	process 17 is executed. (Main area: 0x00006000, Stack area 0x0000FFFF) 17. If OUTPUT is "Running", set OUTPUT to "Success" 1. Initialize OUTPUT with "Failure"	
	MCU)	RAM	Set the start address of the backup RAM in the check address Write 0x55 for 16 bytes to the check address data	
req[13-3-2-6]			4. Check if the check address data 16Byte is 0x55 5. Write 0xAA for 16 bytes to the check address data 6. Check if the check address data 16Byte is 0xAA	
	Self-diagnosis start processing every 24 hours (sensor MCU)	Counts every 250 msec and performs RAM check start processing every 24 hours	7. If both process 4 and process 6 above match, set OUTPUT to "success" 1. Add 1 to the 24-hour RAM check counter 2. If the 24-hour RAM check counter is 345600 or higher, perform the following processes 3	
req[13-3-2-7]	24 110010 (0011001 11100)	start processing every 24 hours	and 4 3. Set the 24-hour RAM check counter to 0 4. Perform "RAM check start processing"	
req[13-3-2-8]	RAM check start processing (sensor MCU)	Request the start of a RAM check	If the RAM check phase is stopped, perform the following processes 2 and 3 Set the RAM check phase to start processing	
req[13-3-2-9]	RAM check 250msec processing (sensor MCU)	RAM check processing is performed every 250 msec	3. Initialize the retry counter on error with 0 1. Perform RAM check process 2. Set the result of RAM check processing to OUTPUT	
	RAM check processing (sensor MCU)	Check RAM	Initialize the OUTPUT value with "Stop" If the RAM check phase is "stop processing", the processing ends without doing	
			anything. 3. If the RAM check phase is "process start", perform the following processes 9 to 10. 4. If the RAM check phase is the "save area", perform the following processes 11 to 12.	
			 If the RAM check phase is the "main area", perform the following processes 13 to 14 If the RAM check phase is "process successful", perform the following process 15. If the RAM check phase is "processing failure", perform the following processes 16 to 20. 	
			If the RAM check phase is other than the above processes 2 to 7, perform the following process 21. Initialize the retry counter to 0 and set the RAM check phase to "save area".	
req[13-3-2-10]			 Set the OUTPUT value to "Running" Perform "RAM check processing: save RAM check phase" and set the result to the 	
1eq[13/3-2-10]			RAM check phase. 12. Set the OUTPUT value to "Running" 13. Perform "RAM check process: main RAM check phase" and set the result to RAM	
			check phase. 14. Set the OUTPUT value to "Running" 15. Set the RAM check phase to "Stop processing" and set the OUTPUT value to "Normal"	
			 Add 1 to the retry counter If the retry counter value is less than 3, perform process 19 below. 	
			18. If the retry counter value is 3 or more, perform the following process 20. 19. Set the RAM check phase to "Save area" and set the OUTPUT value to "Running". 20. Set the RAM check phase to "Stop processing" and set the OUTPUT value to "Failed"	
	RAM check processing: RAM check	Performs backup RAM check phase processing	Set the RAM check phase to "Stop processing" Perform "save RAM check process"	
req[13-3-2-11]	phase for saving (sensor MCU)	un oroon priese processing	If the result of process 1 above is "successful", perform process 4 below. If the result of process 1 above is not "successful", perform process 5 below.	
			Perform "Check target RAM check initialization process" and set OUTPUT to "Main area". Set OUTPUT to "Processing failed"	
req[13-3-2-12]	RAM check processing: Main RAM check phase (sensor MCU)	Process the main RAM check phase	1. Perform "Check target RAM check process" 2. If the result of process 1 above is "in progress", set the value of INPUT to OUTPUT. 3. If the result of process 1 above is "successful", set OUTPUT to "process successful".	
			If the result of process 1 above is neither "in progress" nor "success", set OUTPUT to "process failure".	
	RAM check process for saving (sensor MCU)	Check the backup RAM area used when checking RAM	 Initialize OUTPUT with "Failure" Set the start address of the backup RAM in the check address Write 0x55 for 16 bytes to the check address data	
req[13-3-2-13]			4. Check if the check address data 16Byte is 0x55 5. Write 0xAA for 16 bytes to the check address data 6. Check if the check address data 16Byte is 0xAA in the check address data 16Byte is 0xAA	
req[13-3-2-14]		Set the start address for RAM check	The check if the check address data hebyte is UXAA The both process 4 and process 6 above match, set OUTPUT to "success" Set the start address of the main area (0xE780)	
.eq[13-3-2-14]	process (sensor MCU) Check target RAM check processing (sensor MCU)	Check the RAM of the specified area	Substitute the start address for the check address Set OUTPUT to "Running"	
			3. Perform the following processes 4 to 14 for 32 bytes 4. Disable interrupts 5. Write the check address data to the save memory	
			Write 0x55 to the check address data Write the check address data to confirmation buffer 1	
req[13-3-2-15]			8. Write 0xAA to the check address data 9. Write the check address data to confirmation buffer 2 10. Write the data in the save memory to the data in the check address	
			11. Allow interrupts 12. Add 1 to the check address 13. Add 1 to the check address 13. If confirmation buffer 1 is other than 0x55 or confirmation buffer 2 is other than 0xAA,	
			perform the following process 14. 14. Set OUTPUT to "Failure" and exit loop processing 3.	
			15. Add 32 to the starting address 16. When the start address reaches the end of the RAM to be confirmed (0xFE00), the following process 17 is executed.	
req[13-4-1-1]	10 msec interrupt processing for BUMP test	Perform 10 msec interruption processing of BUMP test	17. If OUTPUT is "Running", set OUTPUT to "Success" 1. Count down bump test count timer. 2. Count down bump calibration count timer.	
req[13-4-1-2]	Reading 250 msec count flag (Sensor MCU)	Reads the 250 msec count flag	Return the 250 msec count flag.	
req[13-4-1-3]	250 msec count flag setting (Sensor MCU) 10 msec Interrupt handling	Set the 250 msec count flag Perform interrupt processing for 10 msec	Place the setting value of the count flag in the 250 msec count flag. 1. 10 msec Call interrupt processing.	
req[13-4-1-4]	(Main MCU)		2. Cell processing every 10 msec of EC connection check. 3. 24 bit A/D conversion start processing. 4. Cells up the energization time counting process of the NC sensor element.	
			250 mse When the count timer is 1, set the 250 msec count flag to true and set the 250 msec count timer to 25.	
req[13-4-1-5] req[13-4-1-6]	10 msec interrupt RAM data initialization processing Reading 100 msec count flag	Perform 10 msec interrupt RAM data initialization processing Reading 100 msec count flag	Initialize the 250 msec count flag. Return 100-msec count flag.	
req[13-4-1-7]	Reading 250 msec count flag (Main MCU)	Reads the 250 msec count flag	 Return 250 msec count flag.	
req[13-4-1-8] req[13-4-1-9]	100 msec count flag setting 250 msec count flag setting (Main MCU)	Set 100 msec count flag Set the 250 msec count flag	 Place the setting value of the count flag in the 100 msec count flag. Place the setting value of the count flag in the 250 msec count flag.	
	(wall WCU)			

	Interrupt activation processing	Perform an interrupt activation processing	1. 10 msec Call interrupt start processing.
req[13-4-1-10]	Interrupt stop processing	Perform interrupt stop processing	1. 10 msec Call interrupt stop processing.
1eq[13-4-1-11]	10 msec Interrupt handling	Perform interrupt processing for 10 msec	1. Count SPI timeout.
req[13-4-1-12]	(Sensor MCU)		Count the delay of SCI6. Call all 10 ms interrupt processing for each function.
req[13-4-1-13]	ICMT0 channel initialization processing	Initialize the ICMT0 channel	When the count timer is 0, the count flag is set to true. Initialize the ICMT 0 channel.
req[13-4-1-14]	CMT0 channel counter start	Start processing of the CMT0 channel counter	Enable CMI 0 interrupt in ICU.
req[13-4-1-15]	processing CMT0 channel counter stop	Stop processing of CMT0 channel counter	Start CMT0 count. Invalidate CMI 0 interrupt in ICU.
104[10 4 1 10]	processing Sensor MCU FW rewrite	Perform Sensor MCU FW rewrite for	2. Stop CMT0 count. 1. Allow interrupts.
req[13-4-1-16]	for 10 msec interrupt processing	10 msecinterrupt processing	Sensor MCU FW rewrite 10 msec When the switching flag is OFF, call 10 msec interrupt processing.
req[13-4-1-17]	None	No treatment	Sensor MCU Substitute 10 ms interrupt processing for FW rewriting. No treatment.
req[13-4-1-18] req[13-4-1-19]		No treatment No treatment	No treatment. No treatment.
req[13-4-1-20] req[13-4-1-21]		No treatment No treatment	No treatment. No treatment.
req[13-4-1-22] req[13-4-1-23]		No treatment No treatment	No treatment. No treatment.
req[13-4-1-24]	IT module initialization processing IT module start processing	Perform initialization process of IT module Perform start processing of IT module	I. Initialize the IT module. Clear the INTIT interrupt flag.
req[13-4-1-25]			2. Enable INTIT interrupt.
req[13-4-1-26]	IT module stop processing	Perform stop processing of IT module	Invalidate INIT interrupt. Clear the INTIT interrupt flag.
req[13-4-1-27]	10 msec Interrupt processing (Main MCU) Module main processing	Perform interrupt processing for 10 msec Perform module main processing	1. Allow multiple interrupts. 2. Call 10 msec interruption processing. 1. Reset watchdoot time:
req[13-4-2-1]			2. Check the RAM. 3. Reset the warchoog timer. 4. Set the RAM error flag. 5. Set the address of the normodatile memory. 5. Set the address of the normodatile memory. 6. The reforms voltage desection circuit control activation processing. 8. Initialize variables in ZIPC. 9. Check ROM. 10. Initial value of concentration calculation data is set. 11. Activate interrupt. 12. Initialize alarm relation. 14. Start SP1 of desicated function. 15. Reset the watchbog inter. 16. Communication with MAIN microcomputer is started. 17. Reset the watchbog inter. 18. Start SP1C. 19. Read FRAM for the watchbog inter. 21. Read FRAM for the watchbog inter. 22. Confirm whether resetting of alarm point. 23. Read FRAM of back watchbog inter. 24. Reset the watchbog inter. 25. Initialize the logger. 26. Check the 100 masc flag. 29. Update the 250 masc flag. 29. Update the 250 masc flag.
req[13-4-2-2]	1000 msec processing A	Perform 1000 msec processing A	Convert temperature value of RL78. Calculate A/D average value for hydrogen cancellation CO of RL78.
			Calls up all gas concentration calculation processing. Call self-diagnosis processing after 24 hours.
req[13-4-2-3]	1000 msec processing B 1000 msec processing C	Perform 1000 msec processing B Perform 1000 msec processing C	Reads the date and time of the RTC. Update the FRAM.
req[13-4-2-4]			2. Set FRAM to default state. 3. Clear the power logger of the logger function. 4. Clear the logger function data logger.
	1000 msec processing D	Perform 1000 msec processing D	1. Implement AIR calibration. 2. Perform AUTO calibration.
req[13-4-2-5]			Check every 1 second period.
	250 msec processing	Perform processing A for 250 msec	1. Reset watchdog timer. 2. Calculate the average value of 12 bits AID value. 3. Perform RL78 communication processing. 4. Check warming temperature warming. 5. Create an event for ZIPC of key. 6. Clear LOD display data.
req[13-4-2-6]			7. When battery voltage is abnormal, turn on the battery voltage abnormality flag. 8. Display each icon. 9. Judge PowerOff display. 10. Perform the processing of ZIP-C. 11. When the EX command reception flag for SD is ON, the display data for SDM is created.
	250 msec processing	Perform processing B for 250 msec	is created. 12. When the PowerOff display ONOFF is ON, a TURNOFF display is created. 1. Automatically light the backlight.
	200 mace processing	r drown processing 5 to 250 motor	Lit the LCD backlight. Perform buzzer loop processing.
req[13-4-2-7]			4. Set display data of LCD. 5. Check ROM.
	Main loop processing	Perform processing for each main loop	Perform "voltage detection circuit control self-diagnosis processing every 250 msec" Analyze received data and create transmitted data.
req[13-4-2-8]	Module main processing (Sensor MCU	Defense modulo maio associativo	SCI9 Perform main processing after UART command reception. 1. Allow interrupts.
req[13-4-2-9]			2. If the RAM check process at startup is not good, turn on the RAM error flag. 3. Substitute SUM check in progress flag. 4. Reset the watchdog timer. 5. Perform "power supply vottage monitoring circuit control RAM data initialization processing" 6. Initialize 24 bit A/DRAM data. 7. EC connection check RAM data is initialized. 8. Control RAM data is initialized. 9. Initialized control RAM data is initialized. 9. Initialized control RAM data is initialized. 10. Initialize control RAM data is initialized. 11. Initialized command receive RAM data. 12. Execute the interrupt activation process. 13. Perform oxygen warming initial processing. 14. 10 mass Start interrupt. 15. 24 Start the A/Dbit conversion. 16. Communication with MAIN microcomputer is started. 17. Set the receive buffer. 18. Start UART communication. 19. Check the 250 mass flag. 21. Update the 250 mass flag. 22. Perform oxygen uarming in processing. 23. Calculate the average value of A/D values. 24. Calculate the difference AD of the EC connection check. 25. Check ROM. 26. If there is an abnormality in the RAM, turn on the RAM error flag. 27. Perform "self-disposis start processing every 24 hours"
req[13-5-1-1]	TGRA compare match interrupt handling	Perform TGRA compare match interrupt processing	When the buzzer is in the OFF state, turn off the MTU 2 function.
req[13-5-1-2]	MTU2 channel 2 counter start	Perform start processing of MTU 2 channel 2 counter	Enable TGIA 2 interrupt with ICU.
req[13-5-1-2]	processing MTU2 channel 2 counter stop	Perform stop processing of MTU 2 channel 2 counter	Disable TGIA 2 interrupt with ICU.
	processing MTU2 module initialization	Initialize the MTU 2 module	1. Initialize the MTU2 module.
			1. Allow interrupts.
req[13-5-1-4]	processing TGRA compare match interrupt	Perform TGRA compare match interrupt processing	
req[13-5-1-4]	TGRA compare match interrupt processing 12bit AD variable initialization	Perform TGRA compare match interrupt processing Perform 12bit AD variable initialization processing	Call TGRA compare match interrupt processing. Initialize the AD value save buffer.
	TGRA compare match interrupt processing		Initialize the AD value save buffer. Initialize the average buffer update disable flag.
req[13-5-1-5]	TGRA compare match interrupt processing 12bit AD variable initialization processing 12 bit A/D conversion start processing	Perform 12bit AD variable initialization processing Perform 12 bit A/D conversion start processing	I. Initialize the AD value save buffer. Initialize the averaging buffer. Initialize the average buffer update disable flag. Initialize the initial process flags. I. When AT Do conversion is stopped, start 12-bit A/D conversion.
req[13-5-1-5]	TGRA compare match interrupt processing 12bit AD variable initialization processing	Perform 12bit AD variable initialization processing	Initiatize the AD value save buffer. Initiatize the AD value save buffer. Initiatize the averaging buffer. Initiatize the average buffer update disable flag. Initiatize the initial process flags.

	Confirm whether to change PGA	Confirm whether to change PGA setting of 24 bit	In the case other than the temperature sensor, perform the following processing 2 to 3.	Т
req[13-6-1-6]	setting of 24bit A/D and set it	A/D and carry out setting processing	In the case other than the temperature sensor, perform the following processing 2 to 3. Fix the PGA setting value to 1 when checking EC sensor connection. If it is outside the threshold value, the PGA setting value is changed.	
req[13-6-1-7]	Set PGA setting of 24 bit A/D to register	Perform processing to set PGA setting of 24 bit A/D to register	Set the PGA setting value in each PGA register.	
	24 bit A/D RAM data initialization	Initialize the buffer used for 24 bit A/D acquisition	Initialize the setting value of PGA.	
req[13-6-1-8]	processing		Initialize A/D acquisition buffer. Initialize the flag of the combustible sensor.	
	Settable amp offset adjustment processing	Perform settable amp offset adjustment processing	Save the variables that will be overwritten by the API. Set power on of the AFE circuit.	
req[13-6-1-9]			Measure the PGA offset voltage. Start offset trimming of CONFIGURABLE AMPLIFIERn.	
	PGA and DS A/D converter	Initialize the PGA and DS A/D converter	Restore the data stored in the variable to the relevant register. Wait until the AFE stabilizes.	
req[13-6-1-10]	initialization processing		Wait until the PGA stabilizes. INTDSAD Set level 2 priority.	
req[13-6-1-11]	DS A/D conversion average result acquisition processing	Acquire average result of DS A/D conversion	Return the average result of A/D conversion.	
req[13-6-1-12]	DS A/D conversion result acquisition processing	Acquire DS A/D conversion result	Returns the A/D conversion result.	
req[13-6-1-13]	PGA and DS A/D converter start processing	Perform start processing of PGA and DS A/D converter	Clear the INTDSAD interrupt flag. Enable INTDSAD interrupt.	
	PGA and DS A/D converter stop	Perform stop processing of PGA and DS A/D	Start conversion. Disable INTDSAD interrupt.	
req[13-6-1-14]	processing	converter	Clear the INTDSAD interrupt flag. Stop the conversion.	
req[13-6-1-15]	24-bit A/D conversion completion interrupt processing	Perform 24 bit A/D conversion completion interrupt processing	Allow multiple interrupts. Call 24-bit A/D conversion completion interrupt processing.	
req[13-6-1-16]	A/D converter initialization	Perform initialization processing of the A/D converter	Initialize the A/D converter.	
req[13-6-1-17]	A/D converter start processing	Perform start processing of the A/D converter	Start the A/D converter.	
req[13-6-1-18] req[13-6-1-19]	A/D converter stop processing Initializes the selectable power-on-	Perform stop processing of the A/D converter Perform initializes the selectable power-on-reset circuit	Stop the A/D converter. Initializes the CAMP circuit.	
req[13-6-1-20]	reset circuit Starts the CAMP0	Perform starts the CAMP0	Starts the CAMP0.	
req[13-6-1-21]	Starts the CAMP1 12 bit A/D value average conversion	Perform starts the CAMP1 Perform 12 bit A/D value average conversion	Starts the CAMP1. Turnon moving average buffer update prohibition flag.	
req[13-6-2-1]	processing	processing	Calculate the average value of temperature sensor A/D values. Convert A/D data to voltage value.	
req[13-6-2-2]	12 bit A/D value read processing	Perform 12 bit A/D value read processing	Turnoff the moving average buffer update prohibition flag. Return the A/D value of the specified A/D channel.	
req[13-6-2-3]	12 bit A/D mV conversion	Perform 12 bit A/D mV conversion	Convert the AD conversion result to a voltage value.	
req[13-6-2-4]	12bitA/D initial AD acquisition flag	Perform 12bitA/D initial AD acquisition flag	Initialize the result flags. Turn on the result flag other than the initial process flag is completed. Return result flag.	
req[13-6-2-5]	Put 12 bit A/D data in the average buffer	Put 12 bit A/D data in the average buffer	Neturn result flag. Insert the 12-bit A/D value into the moving average buffer.	
<u> </u>	24 bit A/D value average conversion	Perform 24 bit A/D value average conversion	When the average buffer renewal permission flag is ON, the NC sensor average	
1	processing	processing	A/D value is obtained using the NC sensor backup buffer, and the update permission flag is turned off. 2. From the Connect A/D value, calculate the guerage A/D value of the EC connect.	
req[13-6-2-6]			 From the EC sensor A/D value, calculate the average A/D value of the EC sensor. Calculate the average A/D value of the temperature sensor from the temperature sensor A/D value. 	
1			A/ID value. A. When the average A/D value of the NC sensor is obtained, the average A/D data of the NC sensor is converted into the voltage value.	
	24 bit A/D m\/ annumi:	Perform 24 bit A/D mV conversion	 Convert A/D data of EC sensor and temperature sensor to voltage value.	
req[13-6-2-7]	24 bit A/D mV conversion		Convert the A/D data of the specified channel to the voltage value.	
	24 bit A/D conversion completion interrupt processing	Perform 24 bit A/D conversion completion interrupt processing	Check the 24-bit A/D conversion complete channel. The completed channels are subjected to the following processes 3 to 8.	
			Acquire the A/D value. When O2 sensor channel and oxygen warming is being performed, acquire the A/D value.	
req[13-6-2-8]			every 10 msec. 5. If the EC sensor is not being checked, insert the 24-bit A/D value into the buffer.	
			6. Acquire the A/D value of the E/D sensor check. 7. Change the PGA setting of 7. 24 bit A/D. 8. If there is no completed channel, stop 24-bit A/D conversion.	
	24 bit A/D value assignment	Perform 24 bit A/D value assignment processing	Return the A/D value mV of the specified A/D channel.	
req[13-6-2-9]	processing		In case of NC sensor, it returns the A/D value mV of the specified acquisition timing. O2 In case of warming up, obtain the A/D value after O2 sensor average.	
english of con-	24bit A/D acquisition	Acquire 24 bit A/D	Obtain A/D value and shift bit.	
req[13-6-2-10] req[13-6-2-11]	24 bit A/D conversion complete	Perform 24 bit A/D conversion complete channel	Obtain A/D value and shift bit. Return converted A/D channel in bit format.	
req[13-6-2-11]	channel check Determine ± of 24 bit A/D data	check Determine ± of 24 bit A/D data	 Reference the sign bit of the A/D value and return the absolute value of the A/D value.	
req[13-6-2-13]	Put 24bit A/D data in average buffer	Put 24bit A/D data in average buffer	 Assign the A/D value to the average buffer of the specified AD channel.	
	NC sensor 24bit A/D value average processing	Perform NC sensor 24bit A/D value average processing	Copy the NC sensor AD conversion result corresponding to the element energization flag to the backup buffer.	
			Accumulate the AD values in the backup buffer. Get the minimum value at the same time.	
req[13-6-2-14]			Calculate the average value by subtracting the minimum value from the integrated value. Calculate the voltage-converted AD value.	
1				
			Shift the average buffer. Turn ON the average buffer movement flag when the AD values of all elements have	
req[13-6-2-15]	NC sensor AD value difference acquisition processing	Perform NC sensor AD value difference acquisition processing	Shift the average buffer.	
req[13-6-2-15]	acquisition processing Acquisition processing of H2	Perform NC sensor AD value difference acquisition processing Acquire A/D value of H2 cancellation CO	S. Shift the average buffer. Turn ON the average buffer movement flag when the AD values of all elements have Returns the difference between the current average buffer and the previous average.	
req[13-6-2-16]	acquisition processing Acquisition processing of H2 cancellation CO 12 bit A/D conversion completion	processing Acquire A/D value of H2 cancellation CO Perform 12 bit A/D conversion completion interrupt	S. Shift the average buffer. Turn ON the average buffer movement flag when the AD values of all elements have Returns the difference between the current average buffer and the previous average buffer.	
req[13-6-2-16]	acquisition processing Acquisition processing of H2 cancellation CO 12 bit A/D conversion completion interrupt processing Result acquisition processing from	processing Acquire A/D value of H2 cancellation CO	S. Shift the average buffer. Turn ON the average buffer movement flag when the AD values of all elements have Returns the difference between the current average buffer and the previous average buffer. Return the (WE 1 or W 2) A/D value specified on the A/D channel.	
req[13-6-2-16] req[13-6-2-17] req[13-6-2-18]	acquisition processing Acquisition processing of H2 cancellation CO 12 bit AID conversion completion interrupt processing Result acquisition processing from the AID converter SAU0 module initialization	processing Acquire A/D value of H2 cancellation CO Perform 12 bit A/D conversion completion interrupt processing	S. Shit the average buffer. Turn ON the average buffer movement flag when the AD values of all elements have Turn ON the average buffer movement flag when the AD values of all elements have The AD values of the AD values average buffer and the previous average The AD values average buffer. The AD values processed on the AD channel. The AD conversion completion interrupt processing.	
req[13-6-2-16] req[13-6-2-17] req[13-6-2-18] req[13-7-1-1]	acquisition processing Acquisition processing of H2 cancellation CO 12 bit A/D conversion completion interrupt processing Result acquisition processing from the A/D converter	processing Acquire A/D value of H2 cancellation CO Perform 12 bit A/D conversion completion interrupt processing Acquire result from A/D converter	S. Shitt the average buffer. C. Turn ON the average buffer movement flag when the AD values of all elements have C. Turn ON the average buffer movement flag when the AD values of all elements have C. Turns the difference between the current average buffer and the previous average buffer. I. Return the (WE 1 or W 2) AID value specified on the AID channel. I. Call 12-bit AID conversion completion interrupt processing. I. Acquire the result from the AID converter.	
req[13-6-2-16] req[13-6-2-17] req[13-6-2-18]	acquisition processing of H2 cancellation CO 12 bit AD conversion ompletion interrupt processing from the ATD conversion completion interrupt processing from the ATD conversion SAUD module initialization processing UARTO module initialization processing processing	processing Acquire AID value of H2 cancellation CO Perform 12 bit AID conversion completion interrupt processing Acquire result from AID converter Initialize the SAU0 module Initialize the UART0 module	S. Shit the average buffer. S. Turn ON the average buffer movement flag when the AD values of all elements have R. Turn ON the average buffer movement flag when the AD values of all elements have the AD values buffer and the previous average buffer and the previous average buffer. Return the (WE 1 or W 2) AID value specified on the AID channel. Call "2-bit AID conversion completion interrupt processing. Acquire the result from the AID converter. Initialize the SAU 0 module.	
req[13-6-2-16] req[13-6-2-17] req[13-6-2-18] req[13-7-1-1] req[13-7-1-2] req[13-7-1-3] req[13-7-1-4]	acquisition processing d H2 cancellation corossing of H2 cancellation CO 12 bit AID conversion completion interrupt processing Result acquisition processing from the AID converter SAU0 module initialization processing UARTO module initialization processing UARTO module start processing UARTO module start processing UARTO module start processing UARTO module stop processing	processing Acquire AI'D value of HZ cancellation CO Parform 12 bit AID conversion completion interrupt processing Acquire result from AID converter Initialize the SAU0 module Initialize the UART0 module Perform start processing of UART0 module Perform transprocessing of UART0 module	S. Shit the average buffer. C. Turn ON the average buffer movement flag when the AD values of all elements have R. Turn ON the average buffer movement flag when the AD values of all elements have I. Returns the difference between the current average buffer and the previous average buffer. I. Return the (WE 1 or W 2) AID value specified on the AID channel. I. Call 12-bit AID conversion completion interrupt processing. I. Acquire the result from the AID converter. I. Initiatize the SAU 0 module. I. Initiatize the UART0 module. I. Start operation of UART0 module. I. Stop the operation of the UART0 module. I. Stop the operation of the UART0 module.	
req[13-6-2-16] req[13-6-2-17] req[13-6-2-18] req[13-7-1-1] req[13-7-1-2] req[13-7-1-3] req[13-7-1-6] req[13-7-1-6]	acquisition processing d H2 cancellation CO Table To Tabl	processing Acquire APU value of HZ cancellation CO Perform 12 bit AD conversion completion interrupt processing Acquire result from APD converter Initialize the SAUO module Initialize the UARTO module Perform start processing of UARTO module Perform start processing of UARTO module Perform Initialization processing of SCIS Perform SCIST processing	S. Shit the average buffer. C. Turn ON the average buffer movement flag when the AD values of all elements have R. Turn ON the average buffer movement flag when the AD values of all elements have I. Returns the difference between the current average buffer and the previous average buffer. I. Return the (WE 1 or W 2) AID value specified on the AID channel. I. Call 12-bit AID conversion completion interrupt processing. I. Acquire the result from the AID converter. I. Initiatize the SAU 0 module. I. Initiatize the UART0 module. I. Start operation of UART0 module. I. Initiatize SGI 5. I. Initiatize SGI 5. I. Start SGI	
req[13-6-2-16] req[13-6-2-17] req[13-6-2-18] req[13-7-1-1] req[13-7-1-2] req[13-7-1-3] req[13-7-1-5] req[13-7-1-6] req[13-7-1-7]	acquisition processing d H2 cancellation CO 12 bit A/D conversion completion interrupt processing from the A/D converter SAU0 module initialization processing UARTO module initialization processing UARTO module start processing UARTO module stop processing UARTO module stop processing SCG initialization processing	processing Acquire APU value of HZ cancellation CO Perform 12 bit AD conversion completion interrupt processing Acquire result from A/D converter Initialize the SAU0 module Initialize the UART0 module Perform start processing of UART0 module Perform start processing of UART0 module Perform Initialization processing of SCIS Perform SCIS start processing	S. Shift the average buffer. In the average buffer movement flag when the AD values of all elements have Ruturns the difference between the current average buffer and the previous average buffer. Return the (WE 1 or W 2) A/D value specified on the A/D channel. I. Call 12-bit A/D conversion completion interrupt processing. Acquire the result from the A/D converter. I. Initialize the SAU 0 module. I. Initialize the UART0 module. I. Stop the operation of the UART0 module. I. Initialize (I. Initialize (I. I. I. Initialize (I. I. I	
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req[13-6-2-16] req[13-6-2-17] req[13-6-2-18] req[13-7-1-1] req[13-7-1-2] req[13-7-1-2] req[13-7-1-4] req[13-7-1-6] req[13-7-1-6] req[13-7-1-7] req[13-7-1-10] req[13-7-1-10]	acquisition processing Acquisition processing of H2 cancellation CO 12 bit AID conversion completion interrupt processing Result acquisition processing from the AID converter SAU0 module initialization processing UARTO module initialization processing UARTO module initialization processing SCI6 initialization processing SCI6 initialization processing SCI6 start processing SCI8 start processing SCI9 start processing	processing Acquire AID value of HZ cancellation CO Parform 12 bit AID conversion completion interrupt processing Acquire result from AID converter Initialize the SAU0 module Initialize the SAU0 module Perform start processing of UART0 module Perform start processing of UART0 module Perform start processing of UART0 module Perform start processing of SCIS Perform SCIS stort processing of SCIS Perform SCIS stort processing Perform SCIS stort processing Perform start processing Perform start processing Perform start processing Perform start processing of SCI9 Perform start processing of SCI9 Perform start processing of SCI9 Perform RL78 communication processing 10 msec interrupt processing Perform RL78 communication setting	S. Shit the average buffer. I. Turn ON the average buffer movement flag when the AD values of all elements have I. Returns the difference between the current average buffer and the previous average buffer. I. Return the (WE 1 or W 2) AID value specified on the AID channel. I. Call 12-bit AID conversion completion interrupt processing. I. Acquire the result from the AID converter. I. Initialize the SAU 0 module. I. Initialize the UART0 module. I. State operation of UART0 module. I. Stop the operation of UART0 module. I. Initialize SCI9. I. Stops SCI5. I. Initialize SCI9. I. Initialize SCI9. I. Clear the interrupt flag. I. Set the TXD 9 pin. I. Set the TXD 9 pin. I. Set the TXD 9 pin. I. Ste the TXB is contred down. I. Set the TXD 8 is contred down. I. Set the TXD 9 is contred down. I. Set the STAP is contred of the RL78 is other than 0, the communication retry timer of the RL78 is other than 0, the communication retry timer of the RL78 is other than 0, the communication retry timer of the RL78 is other than 0. Set the communication retry timer of the RL78 is the RL78 to the RL78 sensor MCU communication.	
req[13-6-2-16] req[13-6-2-18] req[13-7-1-1] req[13-7-1-2] req[13-7-1-3] req[13-7-1-6] req[13-7-1-6] req[13-7-1-7] req[13-7-1-7] req[13-7-1-7] req[13-7-1-7]	acquisition processing Acquisition processing of H2 cancellation CO 12 bit A/D conversion completion interrupt processing Result acquisition processing from the A/D converter SAU0 module initialization processing UARTO module initialization processing UARTO module stop processing SCI6 initialization processing SCI6 start processing SCI6 start processing SCI6 start processing SCI6 start processing SCI9 start processing I0 mass cinterrupt processing I1 mass cinterrupt processing I1 mass cinterrupt processing I1 mass cinterrupt processing I1 mass cinterrupt processing II T8 communication setting reconfiguration processing	processing Acquire APD value of H2 cancellation CO Perform 12 bit APD conversion completion interrupt processing Acquire New York of Converter Initialize the SAU0 module Initialize the SAU0 module Perform start processing of UART0 module Perform start processing of UART0 module Perform start processing of UART0 module Perform mitialization processing of SCIS Perform SCIS start processing Perform initialization processing of Perform SCIS start processing Perform SCIS start processing of SCI9 Perform SCI ST SCI9 Perform SCI ST SCI9 Perform RLT8 communication processing 10 msec interrupt processing Perform RLT8 communication setting reconfiguration processing	S. Shit the average buffer. S. Turn ON the average buffer movement flag when the AD values of all elements have R. Turn She difference between the current average buffer and the previous average buffer. Return the (WE 1 or W 2) AID value specified on the AID channel. I. Call 12-bit AID conversion completion interrupt processing. I. Acquire the result from the AID converter. I. Initialize the SAU 0 module. I. Initialize the UART0 module. I. Initialize the UART0 module. I. Step the operation of UART0 module. I. Step the operation of the UART0 module. I. Initialize SGI9. I. Step the SGI interrupt. I. Clear the interrupt flag. 2. Enable SCI interrupt. I. Set the TXD pin. 2. Disable SCI interrupt. I. Set the TXD pin. 2. Disable SCI interrupt. I. Set the TXD size. I. Set the CXD size. I. Set the TXD size. I. Set the CXD size. I. SET Size. I. Size	
req[13-6-2-16] req[13-6-2-17] req[13-6-2-18] req[13-7-1-1] req[13-7-1-2] req[13-7-1-2] req[13-7-1-4] req[13-7-1-6] req[13-7-1-6] req[13-7-1-7] req[13-7-1-10] req[13-7-1-10]	acquisition processing Acquisition processing of H2 cancellation CO 12 bit A/D conversion completion interrupt processing Result acquisition processing from the A/D converter SAU0 module initialization processing UARTO module initialization processing UARTO module stop processing SCI6 initialization processing SCI6 initialization processing SCI6 start processing SCI6 start processing SCI6 start processing SCI9 start processing SCI9 start processing SCI9 start processing SCI9 start processing RL78 communication processing 10 msoc interrupt processing 11 msoc interrupt processing RL78 communication setting reconfiguration processing UART start processing	processing Acquire APO value of H2 cancellation CO Perform 12 bit APD conversion completion interrupt processing Acquire result from APD converter Initialize the SAU0 module Initialize the SAU0 module Perform start processing of UART0 module Perform start processing of UART0 module Perform start processing of UART0 module Perform micro processing of SCIS Perform SCIS start processing Perform initialization processing of SCIS Perform SCIS start processing of SCI9 Perform SCIS start processing of SCI9 Perform scit scin processing of SCI9 Perform scit scin processing of SCI9 Perform RLT8 communication processing 10 msec interrupt processing Perform RLT8 communication processing Perform RLT8 communication setting reconfiguration processing Perform UART start processing of SCI9 Perform UART start processing of SCI9	S. Shit the average buffer. S. Turn ON the average buffer movement flag when the AD values of all elements have R. Turn She difference between the current average buffer and the previous average buffer. Return the (WE 1 or W 2) A/D value specified on the A/D channel. I. Call 12-bit A/D conversion completion interrupt processing. I. Acquire the result from the A/D converter. I. Initialize the SAU 0 module. I. Initialize the UART0 module. I. Initialize the UART0 module. I. Step the operation of UART0 module. I. Stop the operation of UART0 module. I. Initialize SCI9. I. Set the Top 9 pin. I. Set the Top 9 pin. I. Set the TSD 9 pin. I. Set the TSD 18 is controlled own. I. Set the communication setup time of the RL78 is other than 0, the communication retry time of the RL78 is other than 0, the communication retry time of the RL78 is other than 0, the communication retry time of the RL78 is other than 0, the communication retry time of the RL78 is other than 0, the communication retry time of the RL78 is other than 0, the communication retry time of the RL78 is other than 0, the communication retry time of the RL78 is other than 0, the communication retry time of the RL78 is other than 0. Set the conceive buffer.	
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req[13-62-16] req[13-62-17] req[13-62-18] req[13-71-1]	acquisition processing d H2 cancellation COD cancellation consisting from the AID converter SAU0 module initialization processing UARTO module initialization processing UARTO module stop processing SCIS initialization processing SCIS initialization processing SCIS initialization processing SCIS initialization processing SCIS start processing URATS accommunication processing 10 mace interrupt processing URATS start processing URATS start processing URATS developed to the start processing URATO data transmission end processing	processing Acquire APO value of HZ cancellation CO Perform 12 bit APD conversion completion interrupt processing Acquire real value of HZ cancellation CO Perform 12 bit APD conversion completion interrupt processing Acquire result from APD converter Initialize the SAU0 module Initialize the UART0 module Perform start processing of UART0 module Perform start processing of UART0 module Perform initialization processing of SCIS Perform NCIS start processing Perform initialization processing Perform initialization processing Perform initialization processing Perform NCIS communication strong processing Perform NCIS communication processing 10 msec interrupt processing Perform NCIP communication setting Perform NCIP communication setting Perform UART start processing Perform UARTS frecive buffer setting processing Perform UARTS frecive buffer setting processing Perform UARTS strong processing Perform SCIS UART start processing Perform SCIS UART start processing Perform CIS UART start processing Perform CIS UART start processing Perform MCIS UART start processing Perform UART0 processing Perform MCIS UART start processing Perform MCIS UART0 processing Perform MCIS UART0 processing Perform MCIS UART0 processing of SCIS Perform MCIS MCIS processing of SCIS Perform MCIS processing of SCIS	S. Shitt the average buffer. It was not become the average buffer movement flag when the AD values of all elements have R. Turn ON the average buffer movement flag when the AD values of all elements have the Common the AD conversion of the AD channel. Returns the difference between the current average buffer and the previous average buffer. Return the (WE 1 or W 2) AD value specified on the AID channel. A call 12-bit A/D conversion completion interrupt processing. A capture the result from the AID converter. Initialize the SAU 0 module. Initialize the SAU 0 module. Initialize the UARTO module. Initialize the UARTO module. Initialize SGI 5. Isoph to peration of the UARTO module. Initialize SGI 5. Isoph to peration of the UARTO module. Initialize SGI 5. Initialize SGI 6. Isoph SGI 5. Initialize SGI 6. Isoph SGI 6. Initialize SGI 9. Clear the interrupt flag. Enable SGI interrupt. If the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication of the RL 78 is other than 0, the communication retry time of the RL 78 is other than 0, the communication of the RL 78 is other than 0, the communication of the RL 78 i	

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req[13-7-2-12]	SCI9 transmission interrupt processing	Perform SCI9 transmit interrupt handling	When the number of transmission data of SCI9 is larger than 0, the reception buffer address of SCI9 is counted up and the number of data received by SCI9 is counted	
req[13-7-2-13]	SCI9 transmission end interrupt	Perform SCI9 transmission end interrupt processing	down. 1. Set the TXD 9 pin.	
	PL78 communication processing	Perform RL78 communication processing	When the communication error count buffer of the RL78 is smaller than	
req[13-7-2-14]	(started at 250 msec)		the communication retry number by the periodic HA command, turn on the sensor circuit error flag.	
roquo / 2 mg			When the communication error count buffer of the RL78 is larger than the communication retry number by the periodic HA command, the communication	
	Create communication command	Create communication command data in	error count buffer of the RL78 is counted up. 1. Create communication command data.	
req[13-7-2-15]	data in send buffer	the transmission buffer		
req[13-7-2-16]	Command processing Pass the maximum number of	Perform command processing Pass the maximum number of communication	Execute command response processing corresponding to the requested command code. Return the maximum number of commands.	
req[13-7-2-17]	communication commands Pass table data of communication	commands Pass the maximum number of	Return table code data.	
req[13-7-2-18]	command	communication commands		
req[13-7-2-19]	Pass the table command pointer of the communication command	Pass the table command pointer of the communication command	Return table command pointer.	
req[13-7-2-20]	Setting value writing (W)	Perform transmission processing of setting value writing (W)	Assign a pointer to the send buffer. Create communication command data of zero tracking setting.	
req[13-7-2-20]			Insert the ON/OFF setting of the gas into the transmission buffer. Create and transmit data for transmission.	
	Setting + A/D value reading (W)	Perform transmission processing of setting + A/D value reading (W)	Assign a pointer to the transmission buffer. Create the communication command data for the zero tracking setting.	
req[13-7-2-21]			Obtain the logger energy flag. Obtain flammable sensor protection flap.	
			Turnoff the EC connection check flags. Create and send the transmission data.	
req[13-7-2-22]	Device connection confirmation command (R)	Perform transmission processing of device connection confirmation command (R)	Assign a pointer to the transmission buffer. Create communication command data for device connection confirmation.	
	Program number confirmation (R)	Perform transmission processing of program	Create and send the transmission data. Assign a pointer to the transmission buffer.	
req[13-7-2-23]	,	number confirmation (R)	Create communication command data for program number confirmation. Create and send the transmission data.	
	Confirming whether SUM value confirmation is being executed or	Confirming whether SUM value confirmation is being executed or not	Assign a pointer to the transmission buffer. Create the communication command data for confirming the SUM value confirmation	
req[13-7-2-24]	not		execution. 3. Create and send the transmission data.	
req[13-7-2-25]	Confirm SUM value	Perform transmission processing of confirming the SUM value	Assign a pointer to the send buffer. Create communication command data for checking the SUM value.	
	SUM value confirmation start	Perform transmission processing of SUM value	Create and transmit data for transmission. Assign a pointer to the send buffer.	
req[13-7-2-26]	processing	confirmation start processing	Assign a pointer to the send buffer. Create communication command data of SUM value confirmation start processing. Create and transmit data for transmission.	
req[13-7-2-27]	Confirming whether the correct command was sent	Confirms whether the correct command was sent	If the transmitted command is correct, execute command processing of SCI9. End transmission of data.	
req[13-7-2-28]	Data transmission end processing	Perform data transmission end processing	Reset the reception count.	
req[13-7-2-29]	Data transmission processing	Perform data transmission processing	After completion of reception, turn off the flag to execute processing in the main loop. Send data of SCI9.	
req[13-7-2-30]	SUM calculation of transmission data	Perform SUM calculation of transmission data	Calculate SUM value of transmission data. Returns the SUM value.	
req[13-7-2-31]	Transmission processing of error command	Perform transmission processing of error command	 End data transmission. Set headers.	
Teq[13-7-2-01]			Put the NAK in the transmission buffer. Create and transmit data for transmission.	
req[13-7-2-32]	Set the header of the receive buffer in the send buffer	Set processing to the header of the receive buffer in the transmission buffer	Copy command to array for response command.	
	Creating and sending data for data transmission	Create and send data transmission data	Place the ETX in the transmission buffer. Pass the number of bytes to be checked and calculate the SUM value.	
req[13-7-2-33]			Put the EOT in the transmission buffer. Send data.	
req[13-7-2-34]	Pointer assignment processing of	Perform pointer assignment processing of	End transmission of data. Return pointer of send buffer.	
	transmission buffer Setting value writing (R)	transmission buffer Perform transmission processing of set value	Set the header.	
req[13-7-2-35]		writing (R)	 Assign gas ON/OFF setting. Create and transmit data for transmission.	
req[13-7-2-36]	Setting value writing (W)	Perform transmission processing of setting value writing (W)	 Setting ON/OFF of gas. Send setting value write (R).	
	Setting + Read A/D value (R)	Perform transmission processing of setting + send A/D value reading (R)	Acquire the A/D value of each sensor. Convert HEX data to ASCII data.	
			Perform the following processes 4 to 9. Substitution processing of NC sensor toggle count.	
req[13-7-2-37]			Substitution processing of Sensor MCU status flag. Long energy setting call processing.	
			Flammability protection setting call processing. Acquisition process of EC connection check in progress flag.	
	Setting + A/D value reading (W)	Perform transmission processing of	Transmission data creation / transmission processing. Perform the following processes 2 to 6.	
req[13-7-2-38]		setting + transmission of A/D value reading (W)	Setting of long energy. Flammability protection setting.	
			4. Start processing of EC connection check O2. 5. Start processing of EC connection check H2S / CO. 6. Transmission processing of setting + A/D value reading (W).	
req[13-7-2-39]	Device connection confirmation	Performs transmission processing of the device	Set the header.	
-		accounting confirmation command (D)		
1	command (R) Program number confirmation (R)	connection confirmation command (R) Perform transmission processing of program number	Create and transmit data for transmission. Set the header.	
req[13-7-2-40]	command (R) Program number confirmation (R)	connection confirmation command (R) Perform transmission processing of program number confirmation (R)	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U_SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission.	
req[13-7-2-40]	command (R)	connection confirmation command (R) Perform transmission processing of program number	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U, SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer.	
	command (R) Program number confirmation (R) Confirm SUM value (C)	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C)	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U, SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission.	
	command (R) Program number confirmation (R)	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U_SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put "1" in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put "0" in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data.	
req[13-7-2-41]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R)	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R)	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U. SHORT data to ASCII data of U.CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute RONSUM.	
req[13-7-2-41]	command (R) Program number confirmation (R) Confirm SUM value (C)	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value SUM value	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U. SHORT data to ASCII data of UCHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convent HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 1. Set the header. 2. When the SUM checking in-p-P1494-P150/2rogress flag is OFF, substitution of	
req[13-7-2-41]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R)	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R)	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U_SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put "1" in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put "0" in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 3. Lost the header. 4. Create and transmit data for transmission. 1. Set the header. 1. Set the header.	
req[13-7-2-41]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (P) Perform transmission processing of SUM value confirmation (W) Perform transmission processing of SUM value confirmation (W) Perform command processing	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U.CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 3. Convert HEX data to ASCII data. 5. Set the header. 2. When the SUM checking in-p-P149AP-P502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W)	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value SUM value confirmation (W)	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U, SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p+P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U.CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 3. Convert HEX data to ASCII data. 5. Set the header. 2. When the SUM checking in-p-P149AP-P502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 5. Set the header. 2. When the SUM checking in-p-Pt 1404-P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return the maximum number of commands.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-45] req[13-7-2-46]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication command Pass the table command pointer of l	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands Pass table data of communication command Pass the table command printer of	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCI data. 4. Consels and transmit data for transmission. 2. When the SUM checking in-p-Pt 494.P-1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return the maximum number of commands. 1. Return the maximum number of commands. 1. Return table code data.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-47]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication command processing command command processing command command processing command com	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands Pass that data of communication command Pass the table command pointer of the communication command	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U, SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 3. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p-P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table code data. 1. If the transmitted command is incorrect, execute command processing. 2. If the transmitted command is incorrect, send an error command.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the data of communication command Pass table data of communication command Communication command of the communication command Confirming whether the correct command was sent Data transmission end processing Data transmission end processing	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Perform command Pass the maximum number of communication command Pass table data of communication command Pass the table command processing Perform description command Pass the table command pointer of the communication command Perform description command Perform d	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U, SHORT data to ASCII data of U, CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 3. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convent HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p+P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table code data. 1. Return table command pointer. 1. If the transmitted command is incorrect, execute command processing. 2. If the transmitted command is incorrect, send an error command. 2. Set the reception count to 0. 3. Red data CMART O. 3. Send data CMART O. 4. Send data CMART O.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication command Pass table data of communication command Command Command Communication command Communication command Confirming whether the correct command was sent Data transmission end processing Data transmission end processing SUM calculation of transmission data	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform transmission processing Perform command processing Pass the maximum number of communication commanded Pass the table of communication command Pass table lasts of communication command Pass the table command pointer of the communication command Perform duration to command Perform duration transmission processing Perform duration of transmission data	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U, SHORT data to ASCII data of U, CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 3. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convent HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p+P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return the maximum number of commands. 1. Return table code data. 1. Return table code data. 1. Return table command pointer. 1. If the transmitted command is incorrect, execute command processing. 2. If the transmitted command is incorrect, send an error command. 2. Atter completion of tree-gloin, turn off the flag to execute processing in the main loop. 3. Rend data of UART O. 1. Send data of UART O. 1. Calculate SUM value of transmission data.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the data of communication command Pass table data of communication command Communication command of the communication command Confirming whether the correct command was sent Data transmission end processing Data transmission end processing	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Perform command Pass the maximum number of communication command Pass table data of communication command Pass the table command processing Perform description command Pass the table command pointer of the communication command Perform description command Perform d	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U, SHORT data to ASCII data of U, CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 3. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convent HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p+P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table code data. 1. Return table command pointer. 1. If the transmitted command is incorrect, execute command processing. 2. If the transmitted command is incorrect, send an error command. 2. Set the reception count to 0. 3. Red data CMART O. 3. Send data CMART O. 4. Send data CMART O.	
req[13-7-2-42] req[13-7-2-42] req[13-7-2-43] req[13-7-2-45] req[13-7-2-45] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-50] req[13-7-2-52]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication command processing Pass table data of communication command command processing Pass the table command processing Data transmission end processing SUM calculation of transmission data Transmission processing SUM calculation of transmission data Transmission processing	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (P) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands Pass the base data of communication command Pass the table data of communication command Confirms whether the correct command was sent Perform data transmission processing Perform data transmission processing Perform SUM calculation of transmission data Perform transmission processing	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U.CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ONF, put '0' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Set the header. 2. Substitute ROMSUM. 4. Create and transmit data for transmission. 5. Set the header. 2. When the SUM checking in-p-P1494-P150/2rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table command response processing corresponding to the requested command code. 1. Return table command pointer. 1. Return table command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 2. After completion ours to 0. 2. After completion ours to 0. 2. After completion of reception, turn off the flag to execute processing in the main loop. 5. Set the header. 2. Set the header. 3. Insert NAK in send buffer. 4. Create and transmit data for transmission.	
rea[13-7-2-41] rea[13-7-2-42] rea[13-7-2-43] rea[13-7-2-44] rea[13-7-2-45] rea[13-7-2-45] rea[13-7-2-45] rea[13-7-2-50]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Confirm SUM value (W) Command processing Pass the maximum number of communication command processing Pass table data of communication command command processing Data transmission end processing SUM calculation of transmission data Transmission processing of error command Set the header of the receive buffer in the send buffer	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Peas the maximum number of communication commands Pass table data of communication command Pass the table data of communication command Peas the table data of communication command Confirms whether the correct command was sent Perform data transmission processing Perform data transmission processing Perform SUM calculation of transmission data Perform transmission processing Perform SUM calculation of transmission data Perform transmission processing of error command	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ONF, put '0' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p-P1494-P150/2rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table command response processing corresponding to the requested command code. 1. Return table command pointer. 1. Return table command pointer. 1. If the transmitted command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 1. He transmitted command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing in the main loop. 3. After completion our to 0. 2. After completion our to 0. 3. After completion our to 10. 4. After completion of reception, turn off the flag to execute processing in the main loop. 5. Set the header. 5. Insert NAK in send buffer. 1. Capt command to array for response command.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-46] req[13-7-2-46] req[13-7-2-47] req[13-7-2-48] req[13-7-2-50] req[13-7-2-50] req[13-7-2-52] req[13-7-2-53]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command commands Pass table table command pointer of the communication command Confirming whether the correct command uses sent Data transmission processing SUM calculation of transmission data Transmission processing of error command Set the header of the receive buffer	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform command processing Pass the maximum number of communication commands Pass table data of communication command Pass table data of communication command Confirms whether the correct command was sent Perform data transmission processing Perform data transmission processing Perform SUM calculation of transmission data Perform transmission processing Perform Table Command of the processing Perform Table Command of the processing Perform Table Command Confirms whether the correct command Set processing to the header of the reception buffer	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U. SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and frammit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 2. Substitute ROMSUM. 3. Create and frammit data for transmission. 5. Set the header. 2. When the SUM checking in-p-P1494P-P50/2rogress flag is OFF, substitution of the start flag of SUM during checking is substitute. 3. Create and frammit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 3. Set the reception court to 0. 2. After completion of reception, tum off the flag to execute processing in the main loop. 1. Set the reception court to 0. 2. After completion of reception, tum off the flag to execute processing in the main loop. 1. Set of the reception court of 0. 2. After completion of reception, tum off the flag to execute processing in the main loop. 1. Set Office of the purpose of transmission. 1. Copy command to a ray for response command. 2. Create and transmission buffer. 3. Set Put the reception data in the transmission buffer. 4. Set ET X in the transmission buffer.	
req[13-7-2-42] req[13-7-2-42] req[13-7-2-43] req[13-7-2-45] req[13-7-2-45] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-50] req[13-7-2-52]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command of the communication command Confirming whether the correct command the communication command Selection (Confirming whether the correct command was sent Data transmission processing Data transmission processing SUM calculation of transmission data Transmission processing of error command Set the header of the receive buffer in the send buffer (Creating and sending data for data	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the amaintum number of communication commands Pass the table data of communication command Pass the table data of communication command Pass the table command pointer of the communication command Confirms whether the correct command was sent Perform data transmission end processing Perform SUM calculation of transmission data Perform transmission processing of error command Set processing to the header of the reception buffer in the transmission buffer Create and send data transmission data	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U, SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p+P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p+P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table command pointer. 1. If the transmitted command is correct, secule command processing. 2. If the transmitted command is correct, secule command processing. 2. If the transmitted command is correct, secule command processing. 2. If the transmitted command is correct, secule command processing. 3. Set the neception count to 0. 2. After compilation of recoppion, turn off the flag to execute processing in the main loop. 3. Set of the header. 4. Create and transmission. 5. Set the header. 5. Set the header. 6. Create and transmission to during. 6. Create and transmission. 7. Even the reception of correct processing in the main loop. 8. Set the header. 8. Set This head transmission of terry processing on the transmission buffer. 9. Create and transmission of correct processing in the transmission buffer. 9. Create and transmission of reception.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-46] req[13-7-2-46] req[13-7-2-47] req[13-7-2-48] req[13-7-2-50] req[13-7-2-50] req[13-7-2-52] req[13-7-2-53]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command of the communication command Confirming whether the correct command the communication command Selection (Confirming whether the correct command was sent Data transmission processing Data transmission processing SUM calculation of transmission data Transmission processing of error command Set the header of the receive buffer in the send buffer (Creating and sending data for data	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Peas the maximum number of communication commands Pass table data of communication command Pass the table data of communication command Peas the table data of communication command Confirms whether the correct command was sent Perform data transmission processing Perform data transmission processing Perform SUM calculation of transmission data Perform transmission processing Perform SUM calculation of transmission data Perform transmission processing of error command	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U.CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ONF, put '0' in the send buffer pointer. 4. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 3. Convert HEX data to ASCII data. 5. Certification of the send of transmission. 5. Set the header. 2. When the SUM checking in-p-Pt 49AP-Pt02mogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table command is correct, execute command processing. 2. If the transmitted command is incorrect, execute command processing. 2. If the transmitted command is correct, execute command processing. 3. Set the reception count to 0. 3. Set the reception count to 0. 3. Set the reception count to 0. 4. Return table command for transmission. 5. Set the header. 5. Set Text reception count to 0. 5. Set the meader of transmission. 6. Copy command to array for response command. 1. Set the reception data in the transmission buffer. 1. Set Text in the transmission buffer. 1. Set Open the processing of the set	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-50] req[13-7-2-50] req[13-7-2-53] req[13-7-2-54]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command of the command processing Pass table data of communication command of the command processing of the command processing of the command of	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (C) SUM value confirmation (C) Perform transmission processing of SUM value confirmation (P) Perform transmission processing of SUM value confirmation (W) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands Pass the behavior of communication command Pass the table communication command Confirms whether the correct command was sent Perform data transmission end processing Perform transmission processing Perform transmission processing Perform transmission processing Perform transmission processing St processing to the header of the reception buffer in the transmission buffer Create and send data transmission data	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U, SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p+P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM checking in-p+P1494.P1502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table command pointer. 1. If the transmitted command is correct, secule command processing. 2. If the transmitted command is correct, secule command processing. 2. If the transmitted command is correct, secule command processing. 2. If the transmitted command is correct, secule command processing. 3. Set the neception count to 0. 2. After compilation of recoppion, turn off the flag to execute processing in the main loop. 3. Set of the header. 4. Create and transmission. 5. Set the header. 5. Set the header. 6. Create and transmission to during. 6. Create and transmission. 7. Even the reception of correct processing in the main loop. 8. Set the header. 8. Set This head transmission of terry processing on the transmission buffer. 9. Create and transmission of correct processing in the transmission buffer. 9. Create and transmission of reception.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-50] req[13-7-2-51] req[13-7-2-53] req[13-7-2-54]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command of the communication command the communication command of the communication command the communication command of the communication of transmission data transmission processing of error command Set the header of the receive buffer in the send buffer Creating and sending data for data transmission buffer Pointer assignment processing of transmission buffer	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (C) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the amaintum number of communication commands Pass the table data of communication command Pass the table data of communication command Pass the table command pointer of the communication command Confirms whether the correct command was sent Perform data transmission processing Perform SUM calculation of transmission data Perform transmission buffer Create and send data transmission data Perform transmission buffer Create and send data transmission data	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U. CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ONF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCI data. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCI data. 4. Create and transmit data for transmission. 1. Set the header. 3. Check the header. 4. Create and transmit data for transmission. 1. Set the header. 3. Create and transmit data for transmission. 5. Execute command response processing corresponding to the requested command code. 1. Return the maximum number of commands. 1. Return table code data. 1. Return table code data. 1. Return table command prioriter. 1. If the transmitted command is correct, execute command processing. 2. If the transmitted command is incorrect, execute command processing. 2. If the transmitted command is incorrect, execute command processing. 1. Set the reception count to 0. 2. After completion of reception, turn off the flag to execute processing in the main loop. 1. Sea the header. 3. Insert NAK in send buffer. 4. Create and transmission data. 1. For data transmission and the transmission buffer. 2. Set the number of views to check and calculate the SUM value. 3. And the number of views to check and calculate the SUM value. 5. End data transmission data for transmission buffer. 6. Create and transmission status of SCIS. 6. If the transmission prioriter of and the transmission buffer. 8. Return the transmission buffer. 8. Return the transmission of counter is 0 and the transmission request data size is greater.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-56] req[13-7-2-56] req[13-7-2-56]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command of the command processing Pass table data of communication command of the command processing of the command processing of the command of	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands Pass the maximum number of communication commands Pass the best data of communication command Pass the table data of communication command Pass the table command pointer of the communication command Confirms whether the correct command was sent Perform data transmission processing Perform SUM calculation of transmission data Perform transmission processing of error command Set processing to the header of the reception buffer in the transmission buffer Create and send data transmission data Perform pointer assignment processing of transmission buffer Perform get transmission status of SCIS	2. Create and transmit data for transmission. 1. Set the header. 2. Convent U. SHORT data to ASCII data of U_CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ONF, put '0' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 4. Create and Standard for transmission. 1. Set the header. 2. When the SUM checking in-p-P1494-P150/zogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table command pointer. 1. If the transmitted command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 1. When the reception court to 0. 2. After complication of ecopition, turn off the flag to execute processing in the main loop. 1. Set the header. 3. In a command processing corresponding to the requested command code. 1. Set the reception court to 0. 2. After complication of ecopition, turn off the flag to execute processing in the main loop. 1. Set data transmission of the contrasmission duffer. 1. Calculate SUM value of transmission data. 1. Create and transmit data for transmission buffer. 2. Set the header. 3. Put the reception end command save destination in the transmission buffer. 4. Set data transmission buffer. 5. Return the transmission buffer. 6. Return the transmission status of SC15. 6. If the LUART'S transmission counter is 0 and the transmission sign is performed. 2. Substitute the address of the transmission frammed and the substitute the address of the transmit buffer.	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-50] req[13-7-2-51] req[13-7-2-53] req[13-7-2-54]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command of the command processing Pass table data of communication command of the command processing of the command processing of the command of	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands Pass the maximum number of communication commands Pass the best data of communication command Pass the table data of communication command Pass the table command pointer of the communication command Confirms whether the correct command was sent Perform data transmission processing Perform SUM calculation of transmission data Perform transmission processing of error command Set processing to the header of the reception buffer in the transmission buffer Create and send data transmission data Perform pointer assignment processing of transmission buffer Perform get transmission status of SCIS	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U.CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ONF, put '0' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 3. Convert HEX data to ASCII data. 4. Convert HEX data to ASCII data. 5. Create and transmit data for transmission. 5. Set the header. 2. When the SUM checking in-p-P149AP-P150/2rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table command a for transmission. 1. Return table command pointer. 1. If the transmitted command is correct, execute command processing. 2. If the transmitted command is incorrect, execute command processing. 2. If the transmitted command is correct, execute command processing in the main loop. 1. Set of the backer. 2. Set the header. 2. Set the header. 3. Create and transmit data for transmission data. 1. End data transmission. 1. End data transmission. 2. Set the header. 3. Create and transmit data for transmission buffer. 4. Set Create and transmit data for transmission buffer. 5. Set Create and transmission buffer. 5. Return the transmission counter is 0 and the transmission request data size is greater than or equal to the minimum value, the following processing is performed. 5. Substitute the data size is greater than or equal to the minimum value, the following processing is performed. 5. Set between the set of the set of the set of	
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req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-56] req[13-7-2-56] req[13-7-2-56]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command of the command processing Pass table data of communication command of the command processing of the command processing of the command of	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands Pass the maximum number of communication commands Pass the best data of communication command Pass the table data of communication command Pass the table command pointer of the communication command Confirms whether the correct command was sent Perform data transmission processing Perform SUM calculation of transmission data Perform transmission processing of error command Set processing to the header of the reception buffer in the transmission buffer Create and send data transmission data Perform pointer assignment processing of transmission buffer Perform get transmission status of SCIS	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U.CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is ONF, put '0' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and frammit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 2. Substitute ROMSUM. 3. Create and frammit data for transmission. 5. Set the header. 2. When the SUM checking in-p-P1494P-P50/2rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and frammit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return the maximum number of commands. 1. Return table code data. 1. Return table command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 3. Set the needer on flags of the set of the processing corresponding to the requested command code. 1. Set the reception court to 0. 2. After completion of reception, tum off the flag to execute processing in the main loop. 1. Set of the seader. 2. After completion of reception, tum off the flag to execute processing in the main loop. 1. Set of the seader. 3. In the transmission of reception and the flag to execute processing in the main loop. 1. Set the reception court to 0. 2. After completion of reception, tum off the flag to execute processing in the main loop. 1. Set the reception court to 0. 2. After completion of reception, tum off the flag to execute processing in the main loop. 1. Set the reception education that transmission buffer. 2. Set 18 the seader. 3. In the transmission of set of the set o	
req[13-7-2-41] req[13-7-2-42] req[13-7-2-43] req[13-7-2-44] req[13-7-2-46] req[13-7-2-46] req[13-7-2-50] req[13-7-2-50] req[13-7-2-50] req[13-7-2-56] req[13-7-2-56] req[13-7-2-56]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (R) Confirm SUM value (W) Command processing Pass the maximum number of communication command Pass the transmission command confirming value (R) Pass table data of communication command to command command pointer of the communication command to command was sent Deate transmission end processing SUM calculation of transmission data Transmission starts of calculation of transmission data Transmission processing of transmission Set the header of the receive buffer in the send buffer Creating and sending data for data transmission Set transmission status of SCI5 SCI5 data transmission processing	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Pass the maximum number of communication commands Pass the belie data of communication command Pass the belie data of communication command Confirms whether the correct command was sent Perform data transmission processing Perform data transmission of transmission data Perform sum command processing Perform data transmission processing Perform data transmission of transmission data Perform poster assignment processing of mannaniasion buffer Create and send data transmission data Perform get transmission status of SCIS Perform got transmission status of SCIS Perform SCIS data transmission processing	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U. SHORT data to ASCII data of U.CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 3. Convert HEX data to ASCII data. 3. Convert HEX data to ASCII data. 4. Create and transmit data for transmission. 5. Set the header. 2. When the SUM checking in-p-P149AP-P502rogress flag is OFF, substitution of the start flag of SUM during checking is substituted. 3. Create and transmit data for transmission. 1. Execute command response processing corresponding to the requested command code. 1. Return table code data. 1. Return table code data. 1. Return table code data. 1. Return table command is correct, execute command processing. 2. If the transmitted command is correct, execute command processing. 1. If the transmitted command is incorrect, execute command processing. 1. Set the reception count to 0. 2. After completion of reception, turn off the flag to execute processing in the main loop. 1. Set the header. 2. Set the header. 2. Set the header. 2. Set the header. 3. Set Set the set of the set of transmission. 4. Copy command to array for response command. 5. Set One header of the set	
req[13-7-2-4] req[13-7-2-42] req[13-7-2-43] req[13-7-2-45] req[13-7-2-46] req[13-7-2-46] req[13-7-2-46] req[13-7-2-50] req[13-7-2-50] req[13-7-2-56] req[13-7-2-56]	command (R) Program number confirmation (R) Confirm SUM value (C) Confirm SUM value (R) Confirm SUM value (W) Confirm SUM value (W) Command processing Pass the maximum number of communication commands Pass table data of communication command of the communication command of the communication command of the communication command of the communication command the communication of transmission data transmission processing of error command the communication of transmission processing of transmission buffer (Creating and sending data for data transmission status of SCI5 SCI5 data transmission status of SCI5 SCI5 data transmission processing of transmission status of SCI5 SCI5 data transmission processing of transmission status of SCI5 SCI5 data transmission processing of transmission status of SCI5 SCI5 data transmission processing of transmission status of SCI5	connection confirmation command (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of program number confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (R) Perform transmission processing of SUM value confirmation (W) Perform command processing Perform command processing Pass the maximum number of communication commands Pass the bed data of communication command Pass the table command protect of the communication command Confirms whether the correct command was sent Perform data transmission encountering Perform SUM calculation of transmission data Perform data transmission processing of transmission buffer Create and send data transmission data Perform get transmission status of SCIS Perform get transmission status of SCIS Perform SCIS data transmission processing	2. Create and transmit data for transmission. 1. Set the header. 2. Convert U, SHORT data to ASCII data of U, CHR [5]. 3. Create and transmit data for transmission. 1. Set the header. 2. When the SUM check in progress flag is ON, put '1' in the send buffer pointer. 3. When the SUM check in progress flag is OFF, put '0' in the send buffer pointer. 4. Create and transmit data for transmission. 1. Set the header. 2. Substitute ROMSUM. 3. Convert HEX data to ASCII data. 4. Create and transmit data for transmission. 1. Set the header. 2. When the SUM	

	SUM calculation of transmitted data	Perform SUM calculation of transmitted data		Accumulate the data in the transmit buffer.	
req[13-7-2-61]				Recurring the SUM value. 1. Receive data of UART 0.	
req[13-7-3-1] req[13-7-3-2]	UART0 data reception processing UART0 reception end processing	Perform UART0 data reception processing Perform UART0 reception end processing		Setting the receive buffer.	
req[13-7-3-3]	UART0 overflow data reception processing	Perform UART0 overflow data reception processing		No treatment.	
req[13-7-3-4]	UART0 reception interrupt processing	Perform UART0 reception interrupt processing		If the received data length of UART 0 is larger than the number of received data of UART 0, perform the following processing 2 to 4. Place received data in receive buffer. Count up the receive buffer.	
	SCI5 data reception processing	Perform SCI5 data reception processing		Count up the number of data received by UART 0. If the buffer size is smaller than 1, make the status an error.	
req[13-7-3-5]	Solo data reception processing	renorm sors data reception processing		2. Set the number of data received by SCIs to 0. 3. Put the buffer size in the receive data length of SCIs. 4. Put the receive buffer pointer in the receive buffer address of SCIs. 5. Return status.	
req[13-7-3-6]	SCI9 data reception processing	Perform SCI9 data reception processing		I. If the buffer size is smaller than 1, make the status an error. 2. Set the number of data received by SCI9 to 0. 3. Put the buffer size in the receive data length of SCI9. 4. Put the receive buffer pointer in the receive buffer address of SCI9.	
req[13-7-3-7]	SCI5 reception end processing	Perform SCI5 reception end processing		Return status. Allow interrupts. Get the received data of SCI5.	
req[13-7-3-8]	SCI5 receive error processing	Perform SCI5 receive error processing		Set the receive buffer for receiving the next 1 byte. Execute reception error interrupt processing.	
req[13-7-3-9]	SCI5 reception interrupt processing SCI5 receive error interrupt	Perform SCI5 reception interrupt processing Perform SCI5 receive error interrupt processing		Call SCI 5 reception interrupt processing. Call SCI 5 error interrupt processing.	
	processing SCI9 reception end processing	Perform SCI9 reception end processing		When the SCI9 transmission flag of the RL 7 PLOG is TRUE, set the SCI9 transmission flag of RL 7 PLOG to FALSE.	
req[13-7-3-11]	SCI9 receive error processing	Perform SCI9 receive error processing		Set receive and receive buffers by 1 byte each. No treatment.	
req[13-7-3-13]	SCI9 reception interrupt processing	Perform SCI9 reception interrupt processing		1. If the received data length of SCI9 is larger than the received data number of SCI9, execute processes 2 to 4 below. 2. Increment the receive buffer address of SCI9. 3. Count down the number of data received by the SCI9. 4. If the received data length of the SCI9 is less than or equal to the number of received data data of the SCI9, the reception of the SCI9 is terminated.	
req[13-7-3-14]	SCI9 receive error interrupt processing RL78 Communication processing	Perform SCI9 receive error interrupt processing Perform RL78 communication processing		Clear overrun, framing, parity error flag. If not the periodic HA command, but the communication error count buffer of the RL78	
req[13-7-3-15]	(activated in the main loop)			is smaller than the communication retry count, turn on the sensor circuit error flag. If the communication error count buffer of RLT 8 is larger than the communication retry count rather than the periodic HA command, execute the following processing 3 to 6. 3. Perform processing corresponding to the communication status of RLT 9. 4. Communication error of RLT 9 Count to const buffer. 5. Count to construct the processing of RLT 9 to the communication delay retransmission time.	
req[13-7-3-16]	RL78 Communication processing acknowledgment	Confirm response of RL78 communication processing		In case of the periodic HA command, reset the communication error count buffer of RL78.	
	Write set value	Perform response processing of writing setting value of SCI9 UART		Execute the following processing 2 with W command and R command. Assign gas ON/OFF setting of RL78.	
req[13-7-3-17]					
req[13-7-3-18]	Setting + A/D value reading	Perform response processing of Setting + A/D value reading of SCI9 UART		Execute the following processing 2 with W command and R command. Setting of gas of RL78. Set A/D value reading. When the status of the sensor circuit is abnormal, turn on the sensor circuit fault flag.	
req[13-7-3-19]	Device connection confirmation command	Perform response processing of device connection confirmation command of SCI9 UART		Check the RL78 communication processing response with R command.	
req[13-7-3-20]	Program number confirmation	Perform response processing of program number confirmation command of SCI9 UART		Set RL78 communication status to program number confirmation with R command.	
req[13-7-3-21]	Confirm SUM value	Perform response processing of SUM value confirmation command of SCI9 UART		1. Execute the following processing 2 to 4 with the R command. 2. Convert ASCII data to HEX data. 3. Acquire the SUM value of RL78. 4. 24 hours if the SUM value of RL78. 4. 24 hours if the SUM value is not being checked, set .the RL78 communication status to SUM value check. 8. RL78 SUM value check contains the sum of the sum o	
	Receive data command check	Perform reception data command check processing		to SUM value check. 1. UART reception data SUM If the check result is OK, set the command number to 0.	
req[13-7-3-22]				Receive data of UART When SUM check result is NG, set the command number to 0xFF.	
req[13-7-3-23]	Received data SUM check (SUM check)	Perform reception data SUM check		Search for the first command. Sereak at the end of command if it reaches. Compute the complement. The calculated value is compared with the received SUM value, and if it is the same, the result is made NG. Seturn result.	
req[13-7-3-24]	Main processing after receiving command	Perform main processing after receiving command		After completion of reception, if the flag to execute processing in the main loop is ON, check whether the correct command was sent.	
req[13-7-3-25]	Receive processing by 1 byte	Perform reception processing by 1 byte		Acquire data in 1 byte receive buffer for driver. Put the data in the driver's 1-byte receive buffer into the receive buffer. When the RIKEN command ends, allow processing within the main loop.	
req[13-7-3-26]	For the next 1 byte reception, the reception buffer setting processing	For reception of next 1 byte, reception buffer setting processing is performed		Set the receive data pointer of UART 9 and set the number of receive data to 1 Byte.	
req[13-7-3-27]	Write set value	Perform response processing of setting value writing		Send set value write (R) with R command. Send setting value write (W) with W command.	
req[13-7-3-28]	Setting + A/D value reading	Perform response processing of Setting + A/D value reading		Send setting + A/D value reading R) with R command. Send setting + A/D value reading (W) with W command.	
req[13-7-3-29]	Device connection confirmation command	Perform response processing of the device connection confirmation command		Send device connection confirmation command (R) with R command.	
req[13-7-3-30]	Program number confirmation	Perform response processing of program number confirmation		Send program number confirmation with R command.	
req[13-7-3-31]	Confirm SUM value	Perform response processing for checking the SUM value		Send SUM value confirmation (R) with R command. Send the SUM value confirmation (W) with the W command.	
	Receive data command check	Perform reception data command check processing		S value confirmation (C) is sent by the C command. UART reception data SUM If the check result is OK, set the command number to 0.	
req[13-7-3-32]	Main processing of	Defendance of the second of th		Receive data of UART When SUM check result is NG, set the command number to 0xFF.	
req[13-7-3-33]	Main processing after receiving command	Perform main processing after receiving command		 After reception is completed, if the flag to execute processing in the main loop is ON, check whether the transmission command is correct or not. 	
req[13-7-3-34]	Receive processing by 1 byte	Perform reception processing by 1 byte		 Acquire data in 1 byte receive buffer for driver. Put buffer for receiving data in 1 byte receive buffer for driver. When the RIKEN command ends, the received data is saved and processing within the main loop is permitted. 	
req[13-7-3-35]	Pointer assignment processing of receive buffer	Perform pointer assignment processing of receive buffer		Perform pointer assignment processing of receive buffer.	
req[13-7-3-36]				Set the receive data pointer of UART 0 and set the number of receive data to 1 Byte.	
req[13-7-3-37]	Received data SUM check (SUM check)	Perform reception data SUM check processing		Search for the first command. Sensk at the end of command if reaches. Compute the complement. The calculated value is compared with the received SUM value, and if it is the same, the result is made NG. Return result.	
req[13-7-3-38] req[13-7-3-39]	SCI5 1-byte reception processing UART5 driver error interrupt handling	Perform SCI5 1-byte reception processing Perform UART5 driver error interrupt handling	-	Perform SCI5 reception processing. Perform UART5 driver error interrupt processing.	
req[13-7-3-40]	Received data SUM check	Perform received data SUM check		Search for the first command. Break at the end of command if it reaches. Compute the complement. The calculated value is compared with the received SUM value, and if it is the same, the result is made NG. Return results.	
req[13-8-1-1]	RSPI0 module initialization processing	Initialize the RSPI0 module		1. Initialize the RSPI0 module.	
req[13-8-1-2]	RSPI0 module start processing	Perform start processing of RSPI0 module		Enable RSPI interrupt. Disable idle interrupt.	
req[13-8-1-3]	RSPI0 module stop processing	Perform stop processing of RSPI0 module		Disable RSPI interrupt. Disable RSPI function.	
req[13-8-1-4] req[13-8-1-5]	SPI timeout count SPI start processing of dedicated	Perform SPI timeout count processing Perform SPI start processing of dedicated function		If the timeout count is greater than 0, count down the timeout count. Start operation of the RSPI0 module.	
req[13-8-1-6]	function SPI stop processing of dedicated	Perform SPI stop processing of dedicated function		Stop the operation of the RSPI0 module.	
	function	i l			
req[13-8-1-7]	SPI writing in progress flag down RSPI0 data transmission/reception processing	Execute flag down processing during SPI writing Perform data transmission/reception processing of RSPI0		Set the data reception completion flag to OFF. Initialize the global counter. Enable send interruot.	

1	RSPI0 data transmission/reception processing	Perform data transmission/reception processing of RSPI0		Setting the channel. Initialize global counter.	
req[13-8-2-2]	processing	u KSF IO		3. Enable send interrupt. 4. Enable receive interrupt.	
				Enable RSPI function.	
req[13-8-2-3]	RSPI0 error processing	Perform RSPI0 error processing		6. Return status. No treatment.	
req[13-8-2-4]	RSPI0 reception end processing	Perform processing of end of RSPI0 reception		Down the SPI writing flag.	
	RSPI0 transmission end processing Error interrupt processing	Perform processing of end of RSPI0 transmission Perform error interrupt processing		Down the SPI writing flag. Make sure SSL0 pin is inactive level.	
				Disable RSPI function. Disable send interrupt.	
req[13-8-2-6]				Disable error interrupt. Disable error assignment.	
				Disable idle interrupt.	
req[13-8-2-7]	Idling interrupt handling	Perform idling interrupt handling processing		Disable the RSPI function. Disable idle interrupt.	
req[13-8-2-8]	Data reception interrupt processing	Perform data reception interrupt processing		Write reception data. Disable send interrupt.	
	B. C.			Allow SPII 0 interrupt. Write transmission data.	
req[13-8-2-9]	Data transmission interrupt processing	Perform data transmission interrupt processing		Disable send interrupt.	
1	Wait for data transfer completion	Wait until data transfer is completed		Allow SPII 0 interrupt. 1. Set the timeout count to 5.	
req[13-8-2-10]	·	•		If the data reception completion flag is 1 and the timeout count is 0, the response result is set to NG.	
	001	D. C. ODL		Return response result.	
i	of dedicated function	Perform SPI transmission reception processing of dedicated function		 If the buffer size is larger than 0 and the number of channels is smaller than 2, execute the following processing 2 to 5. 	
req[13-8-3-1]				Turnon data reception completion flag. Write data to slave device.	
				Wait until data transfer is completed. Set the execution status to ACK.	
req[13-9-1-1]	SCI6 initialization processing	Perform initialization processing of SCI6		Return the enforcement status. Initialize SCI6.	
	SCI6 start processing	Perform start processing of SCI6		Clear the interrupt flag.	
req[13-9-1-2]				Enable TXI and STI interrupt. Brable RXI interrupt.	
req[13-9-1-3]	SCI6 stop processing	Perform stop processing of SCI6		Disable TXI and STI interrupt. Disable TXI and STI interrupt.	
	IIC start processing of SCI6	Perform IIC start processing of SCI6		Clear the interrupt flag. Start IIC of SCI6.	
req[13-9-1-5]	IIC stop processing of SCI6	Perform IIC stop processing of SCI6		Stop IIC of SCI6.	
	Transmission of IIC6 data to slave device	Perform transmission of IIC6 data to slave device		Place the transmit buffer pointer in the transmit buffer address of SCI6. Buffer size Include in the number of transmission data of SCI6.	
req[13-9-2-1]				Reach the slave device address in the target slave address of SCI6. Set the I2C SCI6 transmit receive flag and I2C SCI6 start stop flag.	
				Senerate start condition. Generate start condition.	
		Perform start processing of IIC		Generate IIC start condition.	
req[13-9-2-3]	IIC stop processing	Perform stop processing of IIC Perform transmission end interrupt processing		Generate IIC stop condition Find transmission / reception of SCI6	
red[13-9-2-4]	processing	of SCI6			
	Transmission interrupt processing per 1 Byte of SCI6	Performs transmission interrupt processing every 1 Byte of SCI6		When the following conditions 2 to 4 are satisfied, the transmission buffer address of the SCI6 is counted up and the number of transmission data of the SCI6 is counted down.	
req[13-9-2-5]				ACK is being received. I2C SCI6 transmission reception flag is the transmission flag.	
	SCI6 transmission end interrupt	Perform SCI6 transmission end interrupt processing		There is the number of transmission data of SCI6. When the SCI6 start / stop flag of I2C is the start flag, put the slave address in	
i	processing	Perioriti SCI6 transmission end interrupt processing		the transmit data register.	
req[13-9-2-6]				 If the SCI6 start / stop flag of the I2C is the stop flag and the SCI6 transmission reception flag of the I2C is the transmission flag, the transmission of the SCI6 is ended. 	
				 If the SCI6 start / stop flag of I2C is a stop flag and the SCI6 transmission reception flag of I2C is a reception flag, the transmission and reception of SCI6 is terminated. 	
1	IIC transmission processing of SCI6	Perform IIC transmission processing of SCI6		When the in-transmission flag for LCD is OFF, carry out the following processing 2 to 5. Start transmission / reception.	
req[13-9-2-7]				Send IIC6 data to slave device. Place the result of transmission reception delay processing in the deend result.	
-				Make the judgment result OK.	
	IIC transmission processing of SCI6	Perform IIC transmission processing of SCI6 at		Returns the judgment result. When the in-transmission flag for LCD is OFF, carry out the following processing 2 to 5.	
	(at startup)	startup		Start transmission / reception. Send IIC6 data to slave device.	
req[13-9-2-8]				Place the result of transmission reception delay processing in the deend result. Make the judgment result OK.	
				Returns the judgment result.	
	IIC transmission process for LCD of SCI6	Perform IIC transmission processing for LCD of SCI6		Turnon the transmitting status flag for LCD. Send IIC6 data to slave device.	
	SCI6 transmission reception end flag	SCI6 transmission reception end flag		Returns the judgment result. Turnoff the transmission reception end flag of SCI6.	
1eq[13-9-2-10]				Turnoff the sending flag for LCD.	
	IIC6 data reception processing from slave device	Perform reception processing of IIC6 data from the slave device		Place the buffer size in the receive data length of SCI6. Set the number of data received by SCI6 to 0.	
req[13-9-3-1]				Put in the receive buffer address of receive buffer pointer SCI6. Place the slave device address in the target slave address of SCI6.	
				 Set the I2C SCI6 transmit receive flag and I2C SCI6 start stop flag. Disable RXI and ERI interrupt requests. 	
req[13-9-3-2]	SCI6 reception end processing	PerformSCI6 reception end processing		Generate start condition. Head transmission / reception of SCI6.	
		Perform reception interrupt processing of SCI6		If the received data length of SCI6 is larger than the received data number of SCI6,	
req[13-9-3-3]				execute processes 2 and 3 below. 2. Increment the receive buffer address of SCI6.	
-	Transmission reception delay	Perform transmission reception delay processing		Count down the number of data received by SCI6. When the transmission reception end flag of SCI6 is ON, nop processing is executed.	
req[13-9-3-4]	processing			When the delay count of the SCI6 is 0, the deend result is set to NG. Returns the judgment result.	
req[13-9-3-5]	Transmission reception start flag	Performs transmission reception start flag processing		Turnon SCI6 transmission reception end flag.	
	Transmission reception start flag	Performs transmission reception start flag processing		Set the delay count of SCI6 to 20 msec. Turnon SCI6 transmission reception end flag.	
req[13-9-3-6]		Performs delay count processing of SCI6		Set the delay count of SCI6 to 200 msec. If the delay count of SCI6 is not 0, the delay count of SCI6 is counted down.	
		Performs delay count processing of SCI6 Perform IIC reception processing of SCI6		Start transmission / reception.	
				Send the data of IIC6 to the slave device. Place the result of transmission reception delay processing in the deend result.	
req[13-9-3-8]				When the deend result is OK, the following processings 5 to 6 are executed. Start transmission / reception.	
				Receive IIC6 data to slave device. Place the result of transmission reception delay processing in the deend result.	
	Watchdog timer initialization	Initialize the watchdog timer		Returns the judgment result. Initialize the watchdog timer.	
red[13-10-1-1]	processing				
1		Perform watchdog timer interrupt processing	<u> </u>	No treatment. 1. Watchdog timer restart processing.	
req[13-10-2-1]		Watchdog timer restart processing			
	Watchdog timer restart processing (sensor MCU)	Watchdog timer restart processing			
req[13-10-2-2]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU)	Watchdog timer restart processing Watchdog timer restart processing		1. 00h is written, and then FFh is written and updated.	
req[13-10-2-2]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU)	Watchdog timer restart processing		1. 00h is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize ONOFF setting flag of long energy.	
req[13-10-2-2]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization	Watchdog timer restart processing Watchdog timer restart processing		1. 00h is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor.	
req[13-10-2-2]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing Initial value setting processing of	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for		1. 00h is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize ONOFF setting flag of long energy.	
req[13-10-2-2]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing		1. 00h is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize ONOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-2]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing initial value setting processing of concentration calculation data Confirm existence of TWA	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA		1. 00h is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize ONOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-3]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing linitial value setting processing of concentration calculation data Confirm existence of TWA	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed		1. OOh is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize ON/OFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-3]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing Initial value setting processing of concentration calculation data Confirm existence of TWA Process of converting ASCII (8) to	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to		1. OOh is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize DNOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-3] req[13-11-1-4]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing Initial value setting processing of concentration calculation data Confirm existence of TWA Process of converting ASCII (8) to	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL		1. Oth is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize DNOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the need of concentration value of the variable in the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value of either "1" or "2". It // It // SCIII to be checked is "0", turn the judgment result OFF.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-3] req[13-11-1-4]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing Initial value setting processing of concentration calculation data Confirm existence of TWA Process of converting ASCII (8) to concentration data of OFF_VAL	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL		1. 00h is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize the energization flag of long energy. 3. Initialize ONOFF setting flag of long energy. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-3] req[13-11-1-4] req[13-11-1-5]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing Initial value setting processing of concentration calculation data Confirm existence of TWA Process of converting ASCII (8) to concentration data of OFF_VAL	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON		1. 00h is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize the energization flag of long energy. 3. Initialize ONOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the Comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value. 4. Returns the concentration value of either "1" or "2". 7. Il If ASCII to be checked is "0", turn the judgment result OFF. 7. When ASCI to be checked is "0", turn the judgment result ON. 7. Returns the judgment result. 7. When ASCII to be checked is OFF, set the judgment result to "0".	
req[13-11-1-2] req[13-11-1-2] req[13-11-1-2] req[13-11-1-3] req[13-11-1-4] req[13-11-1-6] req[13-11-1-6]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing Initial value setting processing of concentration calculation data Confirm existence of TWA Process of conventing ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON Convert ASCII OFF or ON to '0' or '1'	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII 0'or '1' to OFF or ON Convert ASCII 0'or '1' to OFF or ON		1. 00h is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize NOCFF setting flag of long energy. 3. Initialize NOCFF setting flag of long energy. 4. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the Comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value. 4. Returns the concentration value of either "1" or "2". 1. If ASCII to be checked is "0", turn the judgment result OFF. 2. When ASCII to be checked is OFF, set the judgment result to "0". 3. Returns the judgment result. 1. When ASCII to be checked is ON, the judgment result to "0". 2. When ASCII to be checked is ON, the judgment result is set to "1". 3. Returns the judgment result.	
req[13-11-1-2] req[13-11-1-2] req[13-11-1-3] req[13-11-1-4] req[13-11-1-6] req[13-11-1-6]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing of concentration calculation data Confirm existence of TWA Process of conventing ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON Convert ASCII OFF or ON to '0' or '1' Processing of converting Converting of converting of converting of converting of converting concentration data of OFF_VAL	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON		1. ODh is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize DNOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. Returns the judgment result OFF. 2. When ASCII to be checked is 0'1, turn the judgment result ON. 3. Returns the judgment result. 4. When ASCII to be checked is 0'FF, set the judgment result to 0'1. 4. When ASCII to be checked is 0'FF, set the judgment result is set 0'1.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-3] req[13-11-1-4] req[13-11-1-5] req[13-11-1-5]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing Initial value setting processing of concentration calculation data Confirm existence of TWA Process of conventing ASCII (8) to concentration data of OFF_VAL Convert ASCII 0' or 1' to OFF or ON Convert ASCII 0' or 1' to OFF or ON Convert ASCII OFF or ON to 0' or 1' Processing of converting concentration data of OFF_VAL Lot ASCII OFF or ON to 0' or 1'	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed. Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON Convert ASCII OFF or ON to '0' or '1' Perform processing of converting concentration data of OFF_VAL to ASCII (8)		1. ODh is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize 2 NNOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value. 4. Returns the concentration value. 5. Returns the concentration value of either '1' or '2'. 5. When ASCII to be checked is OFF, set the judgment result to '0'. 5. Returns the judgment result. 1. When ASCII to be checked is OFF, set the judgment result to '0'. 5. Returns the judgment result. 1. If there is no numerical value, create character data. 2. If there is a numeric value, change the numeric value to character data.	
req[13-11-1-2] req[13-11-1-2] req[13-11-1-2] req[13-11-1-3] req[13-11-1-3] req[13-11-1-5] req[13-11-1-6]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing Initial value setting processing of concentration calculation data Confirm existence of TWA Process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON Convert ASCII OFF or ON to '0' or '1' Processing of converting concentration data of OFF_VAL to ASCII (8) Return pointer of character string from unit code	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON Convert ASCII '0' For ON to '0' or '1' Perform processing of converting concentration data of OFF_VAL to ASCII (8) Return pointer of character string from unit code		1. ODh is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize 2 NNOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. When the comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. Extens the judgment result OFF. 3. When ASCII to be checked is 0, the pudgment result to 0°. 3. Returns the judgment result. 3. Returns the judgment result. 4. When ASCII to be checked is 0°C, the judgment result to 1°C. 3. Returns the judgment result. 5. If there is no numerical value, create character data. 5. If there is a numerical value, change the numeric value to character data. 6. Lopy the address and return a character string pointer from the unit code.	
req[13-11-1-2] , req[13-11-1-2] , req[13-11-1-2] , req[13-11-1-3] , req[13-11-1-4] , req[13-11-1-5] , req[13-11-1-6] , req[13-11-1-6] , req[13-11-1-7] , req[13-11-1-7] , req[13-11-1-8] , req[13-11-1-8] , req[13-11-1-8]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing of concentration calculation data Confirm existence of TWA Process of conventing ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON Convert ASCII OFF or ON to '0' or '1' Processing of converting concentration data of OFF_VAL Restart of the Converting of the Convert ASCII OFF or ON to '0' or '1' Restart of the Converting of the Convertion of the Converting of the Converti	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed. Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON Convert ASCII OFF or ON to '0' or '1' Perform processing of converting concentration data of OFF_VAL to ASCII (8)		1. ODh is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize 2 NNOFF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value. 4. Returns the concentration value. 5. Returns the concentration value of either '1' or '2'. 5. When ASCII to be checked is OFF, set the judgment result to '0'. 5. Returns the judgment result. 1. When ASCII to be checked is OFF, set the judgment result to '0'. 5. Returns the judgment result. 1. If there is no numerical value, create character data. 2. If there is a numeric value, change the numeric value to character data.	
req[13-11-1-2] req[13-11-1-3] req[13-11-1-3] req[13-11-1-4] req[13-11-1-6] req[13-11-1-6] req[13-11-1-6]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing of concentration calculation data Confirm existence of TWA Process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII ("O" or "1" to OFF or ON Convert ASCII ("O" or "1	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII '0' or '1' to OFF or ON Convert ASCII '0' For ON to '0' or '1' Perform processing of converting concentration data of OFF_VAL to ASCII (8) Return pointer of character string from unit code		1. Oth is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize 2 NOVEF setting flag of long energy. 3. Initialize the flammable sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the result OFF concentration. 2. When the comparison result is 1 for the variable in the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value. 3. Returns the concentration value. 4. When ASOII to be checked if 0.7, turn the judgment result OFF. 2. When ASOII to be checked if OFF, set the judgment result to 0.7. 3. Returns the judgment result is set to 1.1. 3. Returns the judgment result is set to 1.1. 4. When ASOII to be checked is OFF, set the judgment result is set to 1.1. 5. Returns the judgment result is set to 1.1. 6. If there is no numerical value, create character data. 7. Long the address and return a character string pointer from the unit code. 7. Convert LONG data to ASOII. 7. If the size of the ASOII data is 2, convert it to 2 bytes of HEX data.	
req[13-11-1-2] req[13-11-1-2] req[13-11-1-3] req[13-11-1-3] req[13-11-1-6] req[13-11-6] req[13-11-6] req[13-11-6]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing of concentration calculation data Confirm existence of TWA Process of conventing ASCII (8) to concentration data of OFF_VAL Convert ASCII OFF or ON to '0' or '1' Processing of conventing ASCII (8) to concentration data of OFF_VAL Lo ASCII OFF or ON to '0' or '1' Processing of conventing concentration data of OFF_VAL to ASCII (8) Return pointer of character string from unit code Processing to convert LONG (HEX) data to ASCII Convert ASCII data to HEX (Byte) data (Mein MCU)	Watchdog timer restart processing Watchdog timer restart processing Perform NG sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII 0'r 1' 1' to OFF or ON Convert ASCII 0'r 7' 1' to OFF or ON Convert ASCII 0'r 7' 1' to OFF or ON to 0'r 1' Perform processing of converting concentration data of OFF_VAL to ASCII (8) Return pointer of character string from unit code Perform processing to convert LONG data to ASCII Convert ASCII data to HEX (Byte) data		1. OOh is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize 2 NNOFF setting flag of long energy. 3. Initialize the Immanible sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the need OFF concentration. 2. When the comparison result is 1 for the variable within the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value of either "1" or "2". 1. If ASCII to be checked is "0, turn the judgment result OFF. 2. When ASCII to be checked is OFF, set the judgment result to "0". 3. Returns the judgment result. 1. When ASCII to be checked is ON, the judgment result is set to "1". 3. Returns the judgment result. 2. If there is a numerical value, change the numeric value to character data. 2. If there is a numerical value, change the numeric value to character data. 1. Copy the address and return a character string pointer from the unit code. 1. Convert LONG data to ASCII. 1. If the size of the ASCII data is 2, convert it to 2 bytes of HEX data.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-2] req[13-11-1-3] req[13-11-1-4] req[13-11-1-6] req[13-11-1-6] req[13-11-1-6] req[13-11-1-6] req[13-11-1-6] req[13-11-1-1] req[13-11-1-1] req[13-11-1-1]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing of concentration calculation data Confirm existence of TWA Process of conventing ASCII (8) to concentration data of OFF_VAL Convert ASCII OFF or ON to '0' or '1' Processing of conventing Processing of conventing ASCII (8) to concentration data of OFF_VAL to ASCII OFF or ON to '0' or '1' Convert ASCII off or or ON to '0' or '1' Convert ASCII off or ON to '0' or '1' Convert ASCII off or ON to '0' or '1' Convert ASCII data to ASCII off or ASCII off or ON to '0' or '1' Convert ASCII off or ON	Watchdog timer restart processing Watchdog timer restart processing Perform NC sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII O're 1' to OFF or ON Convert ASCII O're 1' to OFF or ON Convert ASCII O're 7' to OFF or ON Return pointer of character string from unit code Perform processing to convert LONG data to ASCII Convert ASCII data to HEX (Byte) data Convert ASCII data to HEX (Byte) data Convert U_SHORT data to ASCII data of U_CHR [5]		1. Oth is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize 2 NNOFF setting flag of long energy. 3. Initialize the Immahls sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating slarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the need OFF concentration. 2. When the comparison result is 1 for the variable within the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value of either "1" or "2". 1. If ASCII to be checked is "0, turn the judgment result OFF. 2. When ASCII to be checked is OFF, set the judgment result to "0". 3. Returns the judgment result. 1. When ASCII to be checked is ON, the judgment result is set to "1". 3. Returns the judgment result. 2. If there is no numerical value, change the numeric value to character data. 2. If there is a numerical value, change the numeric value to character data. 1. Copy the address and return a character string pointer from the unit code. 1. Convert LONG data to ASCII. 1. If the size of the ASCII data is 2, convert it to 2 bytes of HEX data. 2. If these is of the ASCII data is 4, convert it to 4 bytes HEX data. 1. Convert to ASCII data in the order of 10000, 1000, 100, 100, 100, and 1.	
req[13-11-1-1] req[13-11-1-2] req[13-11-1-2] req[13-11-1-3] req[13-11-1-6] req[13-11-1-6] req[13-11-1-6] req[13-11-1-6] req[13-11-1-6]	Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (sensor MCU) Watchdog timer restart processing (main MCU) NC sensor RAM data initialization processing of concentration calculation data Confirm existence of TWA Process of conventing ASCII (8) to concentration data of OFF_VAL Convert ASCII OFF or ON to '0' or '1' Processing of conventing Processing of conventing ASCII (8) to concentration data of OFF_VAL to ASCII OFF or ON to '0' or '1' Convert ASCII off or or ON to '0' or '1' Convert ASCII off or ON to '0' or '1' Convert ASCII off or ON to '0' or '1' Convert ASCII data to ASCII off or ASCII off or ON to '0' or '1' Convert ASCII off or ON	Watchdog timer restart processing Watchdog timer restart processing Perform NG sensor RAM data initialization processing An initial value setting process of data for concentration calculation is performed Confirm existence of TWA Perform process of converting ASCII (8) to concentration data of OFF_VAL Convert ASCII 0'r 1' 1' to OFF or ON Convert ASCII 0'r 7' 1' to OFF or ON Convert ASCII 0'r 7' 1' to OFF or ON to 0'r 1' Perform processing of converting concentration data of OFF_VAL to ASCII (8) Return pointer of character string from unit code Perform processing to convert LONG data to ASCII Convert ASCII data to HEX (Byte) data		1. OOh is written, and then FFh is written and updated. 1. Initialize the energization flag of the element of the NC sensor. 2. Initialize 2 NNOFF setting flag of long energy. 3. Initialize the Immanible sensor protection flag. 1. Perform initial value setting processing of concentration calculation data. 1. If the setting is ON and the integrating alarm is OFF, ON is returned. 1. When the comparison result is 0, the variable within the address of U_CHR is set to the need OFF concentration. 2. When the comparison result is 1 for the variable within the address of U_CHR, the result is set to the concentration value. 3. Returns the concentration value of either "1" or "2". 1. If ASCII to be checked is "0, turn the judgment result OFF. 2. When ASCII to be checked is OFF, set the judgment result to "0". 3. Returns the judgment result. 1. When ASCII to be checked is ON, the judgment result is set to "1". 3. Returns the judgment result. 2. If there is a numerical value, change the numeric value to character data. 2. If there is a numerical value, change the numeric value to character data. 1. Copy the address and return a character string pointer from the unit code. 1. Convert LONG data to ASCII. 1. If the size of the ASCII data is 2, convert it to 2 bytes of HEX data.	

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req[13-11-1-13]	Compare variables in address of U_CHR (Main MCU)	Perform variable comparison processing within the address of U_CHR	Compare two variables. When the comparison result matches, the comparison result is made coincident. Count up two variables.	
	Copy variable in address of U_CHR (Main MCU)	Perform variable copy processing within the address of U_CHR	Return comparison result. Place the source variable in the destination variable. Count up two variables.	
req[13-11-1-14]				
req[13-11-1-15]	Create display of ON/OFF menu	Perform display creation processing of ON/OFF menu	Create character data corresponding to ON, OFF. Flash character data.	
req[13-11-1-16]	Convert HEX (Byte) data to ASCII data (Main MCU)	Convert HEX (Byte) data to ASCII data	Convert HEX data 'A' to 'F' to ASCII data. Count the converted number. Return ASCII data.	
req[13-11-1-17]	Convert U_CHR (up to 8 bytes) ASCII data to U_LNG data	Convert U_CHR (up to 8 bytes) ASCII data to U_LNG data Perform processing	3. Result recurring the distance of characters is 8, set U_LNG data to OFF concentration. 2. If the character string pointer is +' or '-', set the buffer to 0 and count up the character string pointer. 3. Set U_LNG data to 0. 4. Set the digit to 1.	
	Contract ASCUI date to DEC (ILLING)	Convert ASCII data to DEC (U_LNG) data	5. The value multiplied by the buffer and the digit is added to the U_LNG data. 6. Multiply digits by 10. 7. The value multiplied by the buffer and the digit is added to the U_LNG data. 8. Return U_LNG data. 1. Convert ASGI data to DEC data.	
req[13-11-1-18]	data		2. Return DEC data.	
req[13-11-1-19]	Convert ASCII data to HEX (Byte) data (Sensor MCU) Convert U_SHORT data to ASCII	Convert ASCII data to HEX (Byte) data Convert U_SHORT data to ASCII data of U_CHR [5]	1. If the size of the ASCII data is 2, convert it to 2 bytes of HEX data. 2. When the size of the ASCII data is 4, convert it into 4-byte HEX data. 1. Convert to ASCII data in the order of 10000, 1000, 100, 100, and 1.	
req[13-11-1-20]	data of U_CHR [5] Compare variables in address	Perform variable comparison processing within	Compare two variables.	
req[13-11-1-21]	of U_CHR (Sensor MCU)	the address of U_CHR	When the comparison result matches, the comparison result is made coincident. Count up two variables. Return comparison result.	
req[13-11-1-22]	Copy variable in address of U_CHR (Sensor MCU)	Perform variable copy processing within the address of U_CHR	Place the source variable in the destination variable. Count up two variables.	
req[13-11-1-23]	Copy by inverting variable in U_CHR address	Make a copy by inverting the variable in the address of U_CHR	Place the inverted copy source variable in the copy destination variable. Count up two variables.	
req[13-11-1-24]	Copy the variable in U_CHR address to U_SHORT	Copy variables in U_CHR address to U_SHORT	Copy source variable cast to U_SHORT is copied. Count up two variables.	
req[13-11-1-25]	Copy variable in address of U_SHORT	Perform variable copy processing within the address of U_SHORT	Place the source variable in the destination variable. Count up two variables.	
req[13-11-1-26]	Convert HEX (Byte) data for dump to ASCII data	Convert HEX (Byte) data for dump to ASCII data	Convert HEX data 'A' to 'F' to ASCII data. Count the converted number.	
req[13-11-1-27]	Convert HEX (Byte) data to ASCII data (Sensor MCU)	Convert HEX (Byte) data to ASCII data (Sensor MCU)	3. Return ASCII data *j*. 1. Convert HEX data *i*. to *F' to ASCII data. 2. Count the converted number.	
	Convert HEX (Byte) data to SHORT	Convert HEX (Byte) data to SHORT ASCII data	Return ASCII data. Convert the HEX data '0x0041' to '0x0046' to ASCII data.	
req[13-11-1-28]	ASCII data Increase or decrease the numerical	Perform increase or decrease the numerical value	Count the converted number. Return ASCII data. If the following conditions 2 to 4 are satisfied, put the minimum value in	
req[13-11-1-29]	value		the change value. 2. OFF concentration is ON. 3. It does not have to increase or decrease. 4. The change value is OFF concentration. 5. When the following conditions 6 to 9 are satisfied, the digit is subtracted from the change value. 6. OFF concentration is ON. 7. The change value is not OFF concentration.	
	Change numeric value to character	Change numeric value to character (CHR) data	8. Change value is greater than digit. 9. The value obtained by subtracting the digit from the change value is larger than the minimum value. 10. Return change value. 11. If the number is greater than 0, divide that number by 10.	
req[13-11-1-30]	(CHR) data	(Break when the number is less than 0. Change numeric value to character data.	
req[13-11-1-31]	Changed numeric value to signed (CHR) data	Change processing of numeric value to signed (CHR) data	If there is a number, put the matrix address to put the character in the symbol address. Change numeric value to character (CHR) data. Insert '+' in symbol address.	
req[13-11-1-32]		Change the numeric value to character (CHR) data with zero added by adding dots	If the number starts from 0, add the value obtained by dividing the number by 10 and add '0' to the buffer and divide the value by 10. 2. If the buffer is Bank, put 0' in the buffer. 3. Put the buffer is mark; address. 4. Count up the mark; address.	
req[13-11-1-33]	(SHORT) data with zero added with dot added Change numeric value to character	Character (SHORT) data with zero added with dot addedChange processing to Change numeric value to character (SHORT) data	1. If the number starts from 0, add the value obtained by dividing the number by 10 and add "0 to the buffer and divide the value by 10. 2. If the buffer is Blank, put "0 in the buffer. 3. Put the buffer in the matrix address. 4. Count up the matrix address.	
req[13-11-1-34]	(SHORT) data		Break when the number is less than 0. Change numeric value to character data.	
req[13-11-1-35]		Perform command receive RAM data initialization processing	1. Initiatize the receiving buffer. 2. Initiatize transmission buffer. 3. Initiatize 1 byte receive buffer for driver. 4. Initiatize 1 byte receive buffer for driver. 5. Receive and command Initiatize save destination. 5. Receive and command Initiatize save destination. 6. After completion of receiption, turn off the flag to execute processing in the main loop.	
req[13-11-1-36]		Acquire ZIPC address change address Perform numeric item upper limit selection	Return the address of the ZIPC numeric value changing variable. Execute up / down change setting of the values of selection 2 to 6 below.	
req[13-11-1-37]	processing	processing Jump to address	2. Selection within mode. 3. Selection within submode. 4. Selection within submode. 5. Selection within setting item. 6. Selection within setting item.	
req[13-11-1-38]	H2 gas measurement presence/absence acquisition process	Perform H2 gas measurement presence/absence acquisition process	Initialize the result flags. Turn ON the result flag when the measurement gas name is H2.	
req[13-11-1-40]	1 second interrupt for display	Perform 1 second interrupt for display	3. Return result flac. 1. Set 0 if the toggle counter is 1. Set 0 of it he 2-second flicker count for display is greater than or equal to the upper limit. Set to 0 if the daylay 3-second flicker count is greater than or equal to the upper limit. Set to 0 if the 4-second flicker count for display is greater than or equal to the upper limit. 2. Set 1 if the toode counter is 0.	
req[13-11-1-42]	Display flicker count 2 seconds 2 Display flicker count 2 seconds 3 Display flicker count 2 seconds 4	Perform display flicker count 2 seconds 2 types Perform display flicker count 2 seconds 3 types Perform display flicker count 2 seconds 4 types	Return the 2-second flicker count for display. Return the 3-second flicker count for display. Return the 4-second flicker count for display.	
req[13-11-1-43] req[13-12-1-1]	Display flicker count 2 seconds 4 Clock generator initialization processing (main MCU)	Perform display flicker count 2 seconds 4 types Initialize the clock generator	Return the 4-second flicker count for display. Initialize the clock generator.	
req[13-12-1-2]	Clock generator initialization processing (Sensor MCU)	Initialize the clock generator	Initialize the clock generator. Set DESE.	
req[13-12-1-3] req[13-12-1-4]	Reset processing Hardware setting initialization processing	Perform reset processing Perform initialization processing of hardware setting	Set RESF. Inplement the function R_Systeminits.	
req[13-12-1-5]		Perform macro initialization processing Implement the main function	Initialize all macros. Implement the function R_MAIN_UserInit. Implement the function Hardware Setup.	
req[13-12-1-6]	main function implementation	Implement the main function	Execute function Main_Process. Implement the function R_MAIN_UserInit.	
req[13-12-1-7]	processing (Sensor MCU) Additional processing of user code (main MCU) before implementing	Add user code before implementing main function	2. Execute function Main_Process. 1. Disable protection bit. 2. Restore the state before the protection register.	
	main function	Add user code before implementing main function	No treatment.	
req[13-12-1-9]	(Sensor MCU) before implementing main function Reset PC Power on process	Reset the PC Perform power on processing	Initialize section.	
req[13-12-1-10]	Hardware setting initialization	Perform initialization processing of hardware setting	2. Set the hardware to use. 3. Set PSW. 1. Initialize the hardware settings.	
req[13-12-1-11] req[13-12-1-12]	processing Macro initialization processing	Perform macro initialization processing	 Initialize all macros.	
req[13-13-1-1]	LVD initial setting process (main MCU) LVD function started (main MCU)	Initialize the voltage detection circuit function Activate the voltage detection circuit function	 Set the voltage detection 1 permission bit (LVD1E) to "voltage detection 1 circuit disabled" 1. Get the status of the protect register	
req[13-13-1-2]	Some sound (Hall Mod)		2. Set PRC3 of the protect register to "write permission" 3. Set the voltage detection 1 permission bit (LVD1E) to "voltage detection 1 circuit enabled" 4. Wait only for VD operation stabilization time 5. Set the voltage monitoring 1 circuit comparison result output permission bit	
			(LVD1CMPE) to "voltage monitoring 1 circuit comparison result output permission" 6. Return to the state where the protect register was acquired in process 1.	

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req[13-13-1-3]	LVD function stopped (main MCU)	Stop the voltage detection circuit function	1. Get the status of the protect register 2. Set PRC3 of the protect register to "write permission" 3. Set the voltage monitoring 1 circuit comparison result output permission bit ((LVD1CMPE) to victage monitoring 1 circuit comparison result output prohibited* 4. Set the voltage detection 1 permission bit (LVD1E) to "voltage detection 1 circuit disabled"	
	Voltage detection circuit control start	Starts the voltage detection circuit control process	Return to the state where the protect register was acquired in process 1. Perform "LVD function start"	
req[13-13-1-4]	processing (main MCU) Voltage detection circuit control stop	Stop the voltage detection circuit control process	I. retrorm LVD function start Initialize the power supply voltage error delay counter Perform "LVD function stop"	
req[13-13-1-5]	processing (main MCU) Voltage detection circuit control	Monitor the power supply voltage every 250 msec	Add 1 to the error delay counter	
req[13-13-1-6]	250msec self-diagnosis processing (main MCU)	mainta da peria sappy tonago tray 200 meco	2. If the voltage detection flag is VCC ≥ Vdet1, initialize the error occurrence delay counter to 0. 3. If the error occurrence delay counter is 20 or more, perform the following processes 4 to 5. 4. Set the error delay counter to 20	
	LVD initial setting process (sensor	Initialize the voltage detection circuit function	5. Set the thermistor error flag to ON (thermistor error because there is no power circuit error) 1. Disable LVD interrupts (LVIMK = 1)	
req[13-13-1-7] req[13-13-1-8]	MCU)	Interrupt processing of voltage detection circuit	1. Disable LVD Interrupts (LVIMR = 1) 2. Clear the LVD interrupt flag (LVIIF = 0) 3. Set the priority of LVD interrupts to low (LVIPR1 = 1, LVIPR0 = 1) 1. Since the interrupt function is not used, only multiple interrupts are enabled.	
req[13-13-1-9]	Power supply voltage monitoring circuit control RAM data initialization processing (sensor MCU)	Initialize the power supply voltage monitoring circuit control	Initialize the power supply voltage error delay counter	
req[13-13-1-10]	Power supply voltage monitoring circuit control 250msec processing (sensor MCU)	Monitor the power supply voltage monitoring circuit every 250 msec	Initialize the OUTPUT value to "normal" Add 1 to the error delay counter In the votage detection flag is power supply voltage (VDD) -detection voltage (VLVD), initialize the error occurrence delay counter to 0. If the voltage courrence delay counter to 0. If the error occurrence delay counter is 30 or more, perform the following processes 5 to 6.	
reg[12-14-1-1]	Initializes the DA converter	Perform initializes the DA converter	5. Set the error delay counter to 20 6. Set the OUTPUT value to "abnormal" 1. Initializes the DA converter.	
req[13-14-1-2]	Enables the DA0 converter	Perform enables the DA0 converter	Enables the DA0 converter.	
req[13-14-1-3] req[13-14-1-4]	Stops the DA0 converter Sets the DA0 converter value	Perform stops the DA0 converter Perform sets the DA0 converter value	Stops the DA0 converter. Sets the DA0 converter value.	
req[13-14-1-5]	DA initialization processing	Perform DA initialization processing	Initialize 12bitDA. Initialize the output percentage value.	
req[13-14-1-6]	DA startup process	Perform DA startup process	3. Set the DA0 output value. 1. Start DA0. 2. Set 12bitDA delay timer.	
req[13-14-1-7]	DA stop processing	Perform DA stop processing	3. Start 12bitDA. 1. Exit 12bitDA. 2. Stop DA0.	
req[13-14-1-8]	DA output setting processing	Perform DA output setting processing	If the set request output percentage exceeds the maximum value, clip at the maximum value. 2. Convert the set request output percentage to a register value. 3. Set a value in the DA0 register.	
_	Process for converting persentage :	Perform process for conventing parameters to	Set 12bitDA delay timer. 1. Convert output percentage to register value.	
req[13-14-1-9]	Process for converting percentages to register values DA self-diagnostic initialization	Perform process for converting percentages to register values Perform DA self-diagnostic initialization process	Convert output percentage to register value. Initialize the delay timer.	
req[13-14-1-10]	process		2. Initialize the active flag.	
req[13-14-1-11] req[13-14-1-12]	DA self-diagnosis start/stop process DA self-diagnosis delay timer setting processing	Perform DA self-diagnosis start/stop process Perform DA self-diagnosis delay timer setting processing	Assign the request flag to the active flag. Assign the delay time to the delay timer.	
req[14-1-1-1]	Acquisition processing of FRAM_AR_DATA	Acquire address processing of FRAM_AR_DATA	Return the address of FRAM_AR_DATA.	
req[14-1-1-2]	Acquisition processing of CHK_DATA	Acquire address processing of CHK_DATA	 Return the address of CHK_DATA.	
req[14-1-1-3]	LOAD processing for FRAM data communication dump	Perform LOAD processing for FRAM data communication dump	Read the first 64 bytes of the specified area. Read the next 64 bytes of the specified area.	
req[14-1-1-4]	Address acquisition processing of FRAM_DATA	Acquire address processing of FRAM_DATA	Return the address of FRAM_DATA.	
req[14-1-1-5]	Acquisition processing of FRAM_LB_DATA	Acquire address processing of FRAM_LB_DATA	Return the address of FRAM_LB_DATA.	
req[14-1-1-6]	Acquisition processing of FRAM_ST_ID_DATA	Acquire address processing of FRAM_ST_ID_DATA	Return the address of FRAM_ST_ID_DATA.	
req[14-1-1-7]	Acquisition processing of FRAM_USER_ID_DATA	Acquire address processing of FRAM_USER_ID_DATA	Return the address of FRAM_USER_ID_DATA.	
req[14-1-1-8]	Acquisition processing of DATA_LOGGER	Acquire address processing of DATA_LOGGER	Return the address of DATA_LOGGER.	
req[14-1-1-9]	FRAMID data LOAD processing	Perform FRAMID data LOAD processing	Read specified byte to FRAM.	
req[14-1-1-10]	Address setting of nonvolatile memory	Perform address setting of nonvolatile memory	2. Reset the watchdog timer. 1. Set the address of FRAM data for gas_calc. c. 2. Set the address of FRAM data for data_detector. c. 3. Set the address of FRAM data for data_logger. c.	
req[14-1-1-11]	FRAM Select the plane shipping factory data and read it	FRAM Select surface from shipping factory and perform reading process	Read specified byte read processing result into FRAM and read it into result. Reset the watchdog timer. Read-culate the check SUM value. If the result of readculation is inconsistent, make the reading result NG. Return reading results.	
	FRAM lunch break data is selected and read in face	FRAM lunch break data is selected for surface and reading processing is performed	Read specified byte read processing result into FRAM and read it into result. Reset the watchdog timer. Reaculative the check SUM value.	
req[14-1-1-12]			If the result of recalculation is inconsistent, make the reading result NG. Return reading results.	
req[14-1-1-13]	Read specified byte in FRAM (until M_FRAM_STACK_SIZE)	Read specified byte in FRAM	If the read data is M_FRAM_STACK_SIZE or less, execute the following processing 2 to 4. Insert memory data read address into FRAM transmit data Read FRAM data.	
req[14-1-2-1]	FRAM write start flag acquisition	Perform FRAM write start flag acquisition processing	Copy write data to. Return write request flag.	
	processing FRAM (ID data part) update	Perform FRAM (ID data part) update processing	When FROM / RAM / FRAM is normal, update FRAM (ID data) is executed.	
req[14-1-2-2]	processing	Perform FRAM data LOAD processing	When FRAM (ID data) update execution processing is NG, turn on the FRAM write start flag. Read two FRAM inverted value data.	
req[14-1-2-3]		. Grown From data EUAD processing	Match write process. Compare which side is the latest. Write on the old side. If you do not know which side is the latest, write on both sides.	
req[14-1-2-4]	FRAM write start flag ON processing		Return judgment result. Set the write request flag to 1.	
req[14-1-2-5]	Write FRAM factory shipping data into designated bytes and write	Divide the FRAM factory shipping data into specified bytes and write	1. Place the inverted value of FRAM_DATA in the fram_back. 2. Initialize points. 3. Specify the side to be written. 4. Write data. 5. In addition, if there is a remainder less than M_FRAM_STACK_SIZE, write data. 6. Writing the write count.	
	Write data of FRAM (ID)	Write data of FRAM (ID)	6. Writing the write. 7. Return data write. 1. Initialize pointer / size / write destination address.	
req[14-1-2-6] req[14-1-2-7]		Batch writing of FRAM ID data	Write data. Write data.	
req[14-1-2-7]	Write data of FRAM divided by specified byte	Divide FRAM data into designated bytes and write	2. In addition, if there is a remainder less than M_FRAM_STACK_SIZE, write data. 1. Place the inverted value of FRAM_DATA in the fram_back. 2. Initialize pointer.	
req[14-1-2-8]			3. Specify the side to be written. 4. Write data. 5. In addition, if there is a remainder less than M_FRAM_STACK_SIZE, write data. 6. Writing the write count. 7. Return data write. 7. Return data write.	
req[14-1-2-9]	Frame data of FRAM is selected and read	Frame data of FRAM is selected for surface reading processing	Read specified byte read processing result into FRAM and read it into result. Reset the watchdog timer. Reactivation the check SUM value. If the result of recalculation is inconsistent, make the reading result NG. Return reading results.	
req[14-1-2-10]	Write specified byte to FRAM (up to M_FRAM_STACK_SIZE)	Perform specified byte write to FRAM	Put write enable address in FRAM transmit data. Allow FRAM writing. Insert memory data write address into FRAM transmit data. Copy write data to. Write FRAM data.	
req[14-1-2-11]	Write processing into a single page (write, read, verify)	Perform writing processing into a single page	Write to FRAM. In the case of successful writing, a reading process is performed.	
req[14-1-2-12]	FRAM (ID data) update execution processing	Perform FRAM (ID data) update execution processing	If both the write and read are successful, the verify check is performed. Return write processing of the data of the FRAM (ID).	
req[14-1-2-13]		Perform FRAM update execution processing	Substitute the FRAM setting data size. Substitute the program number. Copy the program number. Copy the program number. Check SUM Update. Reverse the A I B date of the rewriting surface.	
			6. When it is the A side, write on the A side. 7. When it is the B side, write on the B side. 8. If the face is unknown, write on both sides.	

eq[14-1-3-1]	FRAM periodic self-diagnosis processing (SUM calculation)	Perform FRAM periodic self-diagnosis processing		If the SUM value is equal to the FRAM data SUM calculation result, OK is returned. If the SUM value is not equal to the FRAM data SUM calculation result, NG is returned.	
_	FRAM factory shipping data SUM calculation result	FRAM factory shipping data SUM calculation		Reset watchdog timer. FRAM factory default data SUM calculation.	
eq[14-1-3-2]	Carcalation result			2. FRAM factory default data SUM calculation. 3. Reset the watchdog timer. 4. FRAM Factory-shipped data Returns SUM calculation result.	
	FRAM lunch break SUM calculation	Perform FRAM lunch break SUM calculation		Reset watchdog timer.	
eq[14-1-3-3]	result			Calculate FRAM lunch break SUM. Reset the watchdog timer.	
	FRAM data SUM calculation result	Perform FRAM data SUM calculation		FRAM lunch break Returns SUM result. Reset watchdog timer.	
req[14-1-3-4]				Perform FRAM data SUM calculation. Reset the watchdog timer.	
	10 mess interruption proceeding of	Perform 10 msec interruption processing of FLASH		Returns FRAM data SUM calculation result. Count the write standby count timer.	
req[14-2-1-1]	10 msec interruption processing of FLASH			•	
	Read specified byte in FLASH (up to 256 bytes)	Read specified byte in FLASH		 When the write address is within the range and the number of write data is within 256 Bytes, execute the following processing 2 to 4. 	
req[14-2-1-2]				Put the read command into the transmit data buffer. Convert address U_LNG to U_CHR [3].	
				Create dummy byte. Return SPI transmission reception processing of dedicated function.	
req[14-2-1-3]	FLASH Status byte reading (1 byte)	Read FLASH status byte		When the status selection is correct, put 0 in the transmission data buffer for status and the reception data buffer for status.	
16q[14-2-1-0]				Returns the result of SPI transmission reception processing of dedicated function.	
	Writing specified byte to FLASH (up to 256 bytes)	Write specified byte to FLASH		 When the write address is within the range, perform the following processing 2 to 6. Initialize usage variables. 	
req[14-2-2-1]				Read. Initialize usage variables.	
				writing. Wait until completion of writing.	
	Specified block erase of FLASH (4 kBytes / 32 kBytes / 64 Kbytes)	Perform specified block erase of FLASH		When the erase block is 4, 32, 64, execute the following processes 2 to 6. Initialize transmission data.	
req[14-2-2-2]	(**-,*,*,*,*,*,*,*			Send write permission. Put the write command into the transmit data buffer.	
				Convert address U_LNG to U_CHR [3].	
	Convert address U_LNG to U_CHR [3]	Convert address U_LNG to U_CHR [3]		Write data. 1. Convert address U_LNG to U_CHR [3].	
req[14-2-2-3]				Place the write enable command in the transmit data buffer.	
req[14-2-2-4]	Write permission transmit	Perform write permission transmission		Returns FRAM write permission processing.	
req[14-2-2-5]	FRAM update processing	Perform FRAM update processing		When FROM / RAM / FRAM is normal, update FRAM. If FRAM update execution processing is NG, turn on FRAM error flag.	
req[14-3-1-1]	Pointer of A/D data buffer of RL78 Pointer of data buffer of RL78	Acquire pointer of A/D data buffer of RL78		Return pointer of A/D data buffer of RL78.	
req[14-3-1-2]	RTC oscillation stop flag read & start	Acquire the pointer of the data buffer of RL78 Perform RTC oscillation stop flag read & start		Return pointer of data buffer of RL78. Read data of FLAG register.	
	processing	processing		If the backup battery is less than the threshold mV before the startup process, set VLF to 1.	
req[14-3-1-3]				3. Write 0 to the VLF register. 4. Read data of FLAG register.	
	DTO	Determine		5. Returns the judgment result.	
req[14-3-1-4]	RTC register read processing	Perform register readout processing of RTC		Acquire the IIC reception processing of SCI6. Return IIC reception processing of SCI6.	
	RTC register write processing	Perform RTC register write processing		Acquire IIC transmission processing of SCI6.	
req[14-3-1-5]	2g wine processing			Acquire Inc transmission processing of SCI6. Return IIC transmission processing of SCI6.	
req[14-3-1-6]	Writing processing of circuit setting	Write circuit setting around RTC charging		Write the setting value to ControlRegister 1.	
	around charging of RTC Setting processing of ON/OFF flag	Perform setting process of ON/OFF setting flag of		Return set value. Place the ON/OFF setting flag in the start flag of RTC.	
req[14-3-1-7]	of RTC	RTC			
	RTC startup processing	Perform startup processing of RTC		 When the oscillation stop flag read & start processing of the RTC is detected, a clock error is issued and the date and time data is set to the default value. 	
req[14-3-1-8]				If RTC oscillation stop flag read & start processing is not an error, RTC date / time is read.	
				 When RTC date / time reading processing is not NG, write circuit setting around RTC charging. 	
	Date & time write & verify check	Perform date & time write & verify check		Return result flag. Acquire year, month, day, hours, minutes, and seconds to set.	
	Date & time write & verily check	Perform date & time write & verily check		Read the date and time writing process of RTC and the date and time of RTC,	
req[14-3-2-1]				check and write the date and time. 3. Returns the judgment result.	
	RTC date/time write processing	Perform RTC date/time write processing		Write 1 to the STOP register.	
	RTC datertime write processing	Periorii KTC datertine white processing		Write date and time data.	
req[14-3-2-2]				Write 0 to the STOP register. Returns the judgment result.	
	Time setting processing of RTC	Perform time setting of RTC		When the RTC function is ON, carry out the following 2 to 3. Acquire the check result of date and time.	
req[14-3-2-3]				When the acquired result is OK, the date & time write & verify check is executed. Returns the judgment result.	
	Convert to seconds since 00:00:00	Convert to seconds since 00:00:00		Obtain minutes and set it to second.	
req[14-3-2-4]				When you get in seconds. Acquire seconds.	
	Convert to eccende since	Convert to encoarde since 3000/04/04 00: 00: 00		Returns the sum of the above 1 to 3.	
req[14-3-2-5]	Convert to seconds since 2000/01/01 00:00:00	Convert to seconds since 2000/01/01 00: 00: 00		 Returns the number of days since 1. 2000 / 01/01 and the conversion result and the number of seconds since 00:00:00 plus 86400 for the conversion process. 	
	Convert to days since 1/01/2000	Convert to days since 1/01/2000	-	Acquire year, month, day. Add day to total.	
req[14-3-2-6]				Add the number of days of the month to the total. Add the number of days of the year to the total.	
	Calculate the number of days in	Calculate the number of days of the month		Return days Result. Calculate the number of days in the month.	
req[14-3-2-7]	the month	-		Returns the number of days in the month.	
	RTC date/time read processing	Perform date/time read processing of RTC		Read date and time data. When the read date and time data is OK, obtain two date and time of RTC and check	
req[14-3-3-1]				whether the error is less than 60 seconds. 3. Acquire year, month, day, hour, minute, second.	
	Date and time date east 1-11-	Acquire date and time data		Returns the read date and time data.	
	Date and time data acquisition	Acquire date and time data		Acquire date and time data.	
req[14-3-3-2]					
	RTC date/time read processing	Perform date/time read processing of RTC		When the RTC function is ON, read the date and time of RTC.	
req[14-3-3-3]				Return the result of RTC date / time read processing.	
req[14-4-2-1]	r_sci5 Transmit interrupt r_sci5 Transmission end interrupt	Perform transmission interrupt processing of SCI 5 Perform transmission end interrupt processing		Call SCI 5 send / receive interrupt processing. Call SCI 5 transmission end interrupt processing.	
req[14-4-2-2]		of SCI 5			
req[14-4-3-1] req[14-4-3-2]	r_sci 5 Receive interrupt r_sci 5 Receive error interrupt	Perform reception interrupt processing of SCI 5 Perform reception error interrupt processing of SCI 5		Call SCI 5 reception interrupt processing. Call SCI 5 error interrupt processing.	
req[14-5-1-1]	Set pointer address of display creation data	A process of setting a pointer address of display creation data is performed		Return data for display creation.	
roa(14 5 4 °)	start LCD_NORMAL	Performs start processing of LCD_NORMAL		Clear LCD_NOLMAL display data. LCD_NORMAL Full lit display data setting.	
req[14-5-1-2]				Send setting data.	
req[14-5-1-3]	Stop LCD_NORMAL	Perform stop processing of LCD_NORMAL		Clear LCD_NOLMAL display data. Create LCD_NORMAL display data and send it.	
req[14-5-1-4]	LCD_NORMAL 10 msec interrupt processing	Performs LCD_NORMAL 10 ms interrupt processing		If the count timer is other than 0, count down the count timer.	
req[14-5-1-5]	Start LCD	Perform start LCD		Start the LCD.	
	Stop LCD	Perform stop LCD		Set the LCD backlight timer. Stop the LCD.	
req[14-5-1-6]	•				
req[14-5-1-7]	LCD 10msec interrupt	Perform LCD 10msec interrupt		Decrement if the backlight timer is non-zero. Decrement if the backlight timer at communication disconnection is non-zero.	
	LCD_NORMAL all lighting display data setting	Perform LCD_NORMAL all lighting display data setting		Initialize the following data 2 to 5. Icon data.	
ren[14-5-2-1]		_		2. Touri data. 3. 7 SEG data for time. 4. 7 SEG data for concentration.	
req[14-5-2-1]				5. 14 SEG data.	
				6. Delete the BT icon.	
	LCD_NOLMAL Clear display data	LCD_NOLMAL Perform display data clearing processing		Initialize the following data 2 to 5. Icon data.	
req[14-5-2-2]				2. Total data for time. 4. 7 SEG data for concentration.	
				4. 7 SEG data for concentration. 5. 14 SEG data.	
	Set display data of LCD_NORMAL	Set display data of LCD_NORMAL		When the turn off display is OFF, display the NO_ALARM icon for low price version.	

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req[14-5-2-4]	LCD_NORMAL UPDATA display	Perform UPDATA display processing of LCD_NORMAL		Clear LCD_NOLMAL display data. Create character data.	
104[14024]				Create LCD_NORMAL display data and send it. Reset the watchdog timer.	
	LCD_NORMAL Creating and sending display data	LCD_NORMAL Create and send display data		Create the following display data 2 to 6. Icon data	
	display data			3. Gas name.	
req[14-5-2-5]				7 SEG data for time. 7 SEG data for concentration.	
				6. 14 SEG data. 7. Send setting data.	
req[14-5-2-6]	14 SEG. Code conversion processing	14 SEG. Perform code conversion processing		When the ASCII code is the ASCII code for 14 SEG, insert the 14 SEG font code into the SEG code pointer.	
req[14-5-2-7]	7 SEG Code conversion processing	7 SEG. Perform code conversion processing		If the character code is ASCII code for 7 SEG, put the ASCII code for 7 SEG in	
	Gas name display of concentration	Perform gas name display processing of		the SEG code pointer. 1. Create character data corresponding to the set gas name.	
req[14-5-2-8]	part	concentration part			
req[14-5-2-9]	Processing for creating alarm comment display for low price version	Create alarm comment display for low price version		Create a comment for each alarm.	
req[14-5-2-10]	Battery icon display for low price Comment display of concentration	Perform battery icon display for low price version Perform comment display of concentration part		Display the battery icon. Goov the display character corresponding to the comment of the concentration part.	
req[14-5-2-11]	part part	Perform comment display of concentration part		When the blinking flag is ON, blink letters.	
	Gas numerical display of	Perform gas numerical display of concentration part		Make settings when character data enters the concentration display section.	
	concentration part			 If there is a decimal point, set the position of the dot. When minus flag is ON, '-' is added before concentration value at minus over. 	
req[14-5-2-12]				When the flashing flag is ON, blink letters.	
	Gas name unit display in concentration part	Perform gas name unit display processing of concentration part		 Display gas names and unit character data of gas 2 to 5 below. Flammable gas. 	
req[14-5-2-13]				3. O2. 4. H2S.	
				5. CO.	
req[14-5-2-14]		Perform heart icon display for low price version		Display the heart icon.	
req[14-5-2-15]	Long life icon display for low price version	Long life icon display for low price version		When long flag ON/OFF setting flag is ON, display long life icon.	
	Current concentration display	Perform creation processing of the current		If the following conditions 2 to 6 are satisfied, turn on the flashing flag. Mode is measurement or are text.	
	creation processing for low price	concentration display for low price version		Mode is measurement or gas test. Gas setting is valid and BIT designation of gas display ON/OFF is 1.	
				It is not for measurement H2 cancellation CO. The sensor is normal.	
req[14-5-2-16]				Gas alarm is reporting. When the following conditions 8 to 10 are satisfied, the current concentration,	
				gas name and its unit are displayed. 8. Mode is maintenance.	
				Gas setting is valid and BIT designation of gas display ON/OFF is 1.	
req[14-5-2-17]	Mode icon display for low price	Perform mode icon display for low price version		It is not for measurement H2 cancellation CO. Display mode icon only in maintenance mode.	
req[14-0-Z-17]	version NO_ALARM icon display for low	Perform NO_ALARM icon display forlow price		Set the icon display for the presence / absence of stealth function and alarm function.	
req[14-5-2-18]	price version	version			
req[14-5-2-19]	Time icon display for low price	Perform time icon display for low price version		Acquire date and time data.	
	BUMP check icon display for low	Perform BUMP check icon display for low price		Display time icon. Display the BUMP check icon.	
req[14-5-2-20]	price version	version			
req[14-5-2-21]	Pump icon display	Perform pump icon display		 Set the pump icon according to the toggle flag when the display ON/OFF flag is ON. Toggle the toggle flag. 	
req[14-5-2-22]	Set LCD display data Battery icon display	Perform set LCD display data Perform battery icon display		Set the LCD display data. Set the display data for the battery icon.	
req[14-5-2-24]	Heart icon display	Perform heart icon display		Set the display data for the heart icon.	
req[14-5-2-25] req[14-5-2-26]	Time icon display Mode icon display	Perform time icon display Perform mode icon display		Set the display data of the time icon. Set the display data for the mode icon.	
req[14-5-2-27]	Long life icon display BUMP check icon display	Perform long life icon display Perform BUMP check icon display		Set the display data of the long life icon. Set the display data for the BUMP check icon.	
req[14-5-2-29]	Pump icon display	Perform pump icon display		Set the display data of the pump icon.	
req[14-6-1-1] req[14-6-1-2]	LED ON/OFF control call Backlight turning on LCD_NORMAL	Perform ON/OFF control of LED Perform lighting process of LCD_NORMAL backlight		Set ON/OFF of LED. When the ON/OFF setting flag is ON, turn on the backlight.	
req[14-6-1-3]	Set LED ON/OFF	Set ON/OFF of LED		1. Set ON/OFF of LED 1, LED 2, LED 3.	
req[14-7-1-1]	LED RAM data initialization	Perform LED RAM data initialization processing		Initialize the LED light lighting time.	
req[14-7-1-2]	LED light ON/OFF status acquisition processing	Perform LED light ON/OFF status acquisition processing		Returns ON if the LED light lighting time is not 0, and OFF if it is 0.	
req[14-7-1-3]	LED light test ON/OFF processing	Perform LED light test ON/OFF processing		If the ON/OFF request is ON, set the maximum LED lighting time; if it is OFF, set 0.	
req[14-7-1-4] req[14-7-1-5]	10msec interrupt processing for LED	Perform LED light lighting time setting process Perform 10msec interrupt processing for LED		If the LED lighting time is non-zero, set it to 0; if it is 0, set the maximum lighting time. If the LED lighting time is non-zero, decrement the lighting time and turn on the LED	
req[14-7-1-5]	LED light off setting processing	Perform LED light off setting processing		light, and if it is 0, turn off the LED light. 1. Set the LED lighting time to 0.	
	LED light port setting process	Perform LED light port setting process		Turn off the LED light. If the ON/OFF request is OFF, turn off the LED light.	
req[14-7-1-7] req[14-7-1-8]	LED light ON/OFF processing	Perform LED light ON/OFF processing		If the ON/OFF request is ON, turn on the LED light. Handle LED light on/off.	
	LED light lighting permission	Perform LED light lighting permission acquisition		Initialize the result flags.	
req[14-7-1-9]	acquisition processing	processing		If the stealth mode setting is ON, substitute false for the result flag. Return result flag.	
req[14-7-1-10]	LED light on/off display processing	Perform LED light on/off display processing		Get the ON/OFF status of the LED light. If the ON/OFF status is ON, create ON display characters.	
req[14-8-1-1]	Acquire buzzer operation flag	Acquire the operation flag of the buzzer		If the ON/OFF status is OFF, create a character for OFF display. Return the buzzer operation in progress flag.	
	Initial processing of buzzer unit	Perform initial processing of buzzer unit		Set the alarm pattern to OFF. Set the alarm periodic operation check request flag to OFF.	
req[14-8-1-2]				Set the alarm periodic operation execution request flag to OFF. Initialize the buzzer processing variable.	
				Initialize the buzzer driver.	
req[14-8-1-3]	When the power is off, buzzer mute Initialization of buzzer internal	When power is off, perform buzzer mute processing Initialize buzzer internal variable		Set the power off flag to ON. Initialize the alarm transition setting table.	
req[14-8-1-4]	variable				
	Buzzer ON/OFF control call	Perform ON/OFF control of buzzer		When the buzzer ON/OFF setting flag is ON, carry out the following processes 2 to 6. Turnon buzzer ON flag.	
				If the PWM count value is within the threshold value, the value is set to the PWM setting buffer.	
req[14-8-1-5]				 If the LOW / HI flag is LOW, the setting value of the PWM setting buffer is set to the LOW specification. 	
				 Turn PMW function on. When the buzzer ON/OFF setting flag is OFF, the buzzer ON flag is turned off and 	
	Alarm amongoing within 42	Dorform alarm processing within 40		the PWM function is turned off. 1. When the alarm cycle operation check request flag is ON, turn on the alarm cycle	
	Alarm processing within 10 msec	Perform alarm processing within 10 msec		operation execution request flag.	
				When the SDM alarm test flag is not 0, the SDM alarm test flag is subtracted. When the alarm period operation execution request flag is ON, the following processings	
req[14-8-3-1]				4 to 7 are executed 4. Turnoff the alarm cycle operation execution request flag.	
				Ringing pattern deend processing. Perform ringing execution processing using sounding parameters and alarm transition.	
				table. 7. When the end of the alarm transition table is reached, turn off the alarm pattern and	
			İ		
				alarm period operation check request flag.	
	Buzzer loop processing	Perform buzzer loop processing		Call a Mode transition LED control 250 msec processing When the boot status is at startup, set the alarm type at startup and set the boot	
	Buzzer loop processing	Perform buzzer loop processing		Call a Mode transition LED control 250 msec processing When the boot status is at startup, set the alarm type at startup and set the boot status to active.	
	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active to a startup and set the boot status to active the startup and set the boot status to active the startup and set the startup and set the startup and set to the startup and set to the startup and set to the alarm type.	
	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the power is off, set the alarm type to OFF. 4. When the SDM alarm test flag is ON, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type is set to the fault alarm. 6. When air calibration is in progress, set the alarm type to OFF.	
	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the power is off, set the alarm type to OFF. 4. When the SDM alarm test flag is ON, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type is set to the fault alarm. 6. When air calibration is in progress, set the alarm type to OFF. 7. In cases other than the above, confirm whether alarm is issued and set each alarm to alarm type.	
ren(44.9.2.21	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 mises processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the prower is off, set the alarm type to OFF. 4. When the SDM alarm test flag is CNL, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ONL, the alarm type is set to the fault alarm. 6. When ar calarization is in progress, set the alarm type to CPT. 6. When ar calarization is in progress, set the alarm type to set to the fault alarm. 7. When the dove, committed whether alarm is issued and set each alarm to alarm type. 7. If the alarm type is OFF and the short buzzer flag is valid, set the alarm type to short buzzer.	
req[14-8-3-2]	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the prower is off, set the alarm type to OFF. 4. When the SDM alarm test flag is DN, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type is set to the fault alarm. 6. When air calibration is in progress, set the alarm type to OFF. 1. In cases other than the above, confirm whether alarm is issued and set each alarm to alarm type. 1. If the alarm type is OFF and the short buzzer flag is valid, set the alarm type to short.	
req[14-8-3-2]	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the power is off, set the alarm type to OFF. 4. When the SDM alarm test flag is ON, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type is set to the fault alarm. 6. When air calibration is in progress, set the alarm type to OFF. 1. In cases other than the above, confirm whether alarm is issued and set each alarm to alarm type. 1. If the alarm type is OFF and the short buzzer flag is valid, set the alarm type to short buzzer. 19. When the alarm type is OFF and the power is not stopped, Perform 11 and 12 processing. 10. When the alarm type is OFF and the power is not stopped, Perform 11 and 12 processing.	
req[14-8-3-2]	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the power is off, set the alarm type to OFF. 4. When the SDM alarm test flag is ON, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type to OFF. 6. When air calibration is in progress, set the alarm type to OFF. 7. In cases other than the above, confirm whether alarm is issued and set each alarm to alarm type. 9. The alarm type is OFF and the short buzzer flag is valid, set the alarm type to short buzzer. 10. When the alarm type is OFF and the power is not stopped, Perform 11 and 12 processing. 11. When the mode transition LED request flag is ON, Set the alarm type to the mode transition LED request flag is ON, Set the alarm type to the mode transition LED request flag is ON, Set the alarm type to the mode transition LED request flag is ON, Set the alarm type to the mode transition LED request flag is ON, Set the alarm type to the mode transition LED request flag is ON, Set the alarm type to the mode transition LED request flag is ON, Set the alarm type to the mode transition LED request flag is ON, Set the alarm type to the mode transition LED request flag is ON.	
req[14-8-3-2]	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 mesc processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the power is off, set the alarm type to OFF. 4. When the SDM alarm test flag is CN, an alarm test type flag is set to the alarm type. 5. When the Satul dairm flag is ON, the alarm type is set to the fault alarm. 7. In cases other the the above, confirm whether alarm is assued and set each alarm to alarm type. 7. In cases other the the above, confirm whether alarm is assued and set each alarm to alarm type. 7. If the alarm type is OFF and the short buzzer flag is valid, set the alarm type to short buzzer. 7. Turn of the short buzzer flag. 7. When the alarm type is OFF and the power is not stopped, Perform 11 and 12 processing. 1. When the ruced transition LED request flag is ON, Set the alarm type to the mode 12. When the low battery buzzer request flag is ON, Set the alarm type to low battery buzzer.	
req[14-8-3-2]	Buzzer loop processing	Perform buzzer loop processing		1. Call a Mode transition LED control 250 mose processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the prower is off, set the alarm type to OFF. 4. When the SDM alarm test flag is CN, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type is set to the fault alarm. 6. When air calabration is in progress, set the alarm type to set to the fault alarm. 7. When the above, commit whether alarm to sessed and set each alarm to alarm type. 7. If the alarm type is OFF and the short buzzer flag is valid, set the alarm type to short buzzer. 7. Turnoff the short buzzer flag. 7. When the alarm type is OFF and the power is not stopped, Perform 11 and 12 processing. 7. When the mode transition LED request flag is ON, Set the alarm type to the mode transition LED on the termion LED. 7. The top of the termion of the terminal o	
				1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the prower is off, set the alarm type to OFF. 4. When the SDM alarm test flag is ON, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type is set to the fault alarm. 6. When air calibration is in progress, set the alarm type to OFF. 7. In cases other than the above, confirm whether alarm is issued and set each alarm 7. If the alarm type is OFF and the short buzzer flag is valid, set the alarm type to short buzzer. 9. Turnoff the short buzzer flag. 10. When the alarm type is OFF and the power is not stopped, Perform 11 and 12 processing. 11. When the mode transition LED request flag is ON, Set the alarm type to the mode transition LED. 2. When the low battery buzzer request flag is ON, Set the alarm type to low battery 13. Set the low battery buzzer request flag and mode transition LED request flag to OFF 14. Set alarm type to alarm pattern. 15. Set the alarm cycle operation check request flag to ON.	
	Boot flag assignment	Perform boot flag assignment processing		1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the power is off, set the alarm type to OFF. 4. When the SDM alarm test flag is ON, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type is set to the fault alarm. 6. When air calibration is in progress, set the alarm type to OFF. 1. In cases other than the above, confirm whether alarm is issued and set each alarm to alarm type. 1. It has alarm type is OFF and the short buzzer flag is valid, set the alarm type to short buzzer flag. 1. When the alarm type is OFF and the power is not stopped, Perform 11 and 12 processing. 1. When the mode transition LED request flag is ON, Set the alarm type to the mode transition LED. 2. When the low battery buzzer request flag is ON, Set the alarm type to low battery buzzer. 1. Set the low battery buzzer request flag and mode transition LED request flag to OFF. 14. Set alarm type to alarm pattern. 15. Set the alarm type to start pattern. 15. Set the alarm type to status to the INPUT value.	
				1. Call a Mode transition LED control 250 msec processing 2. When the boot status is at startup, set the alarm type at startup and set the boot status to active. 3. When the prower is off, set the alarm type to OFF. 4. When the SDM alarm test flag is ON, an alarm test type flag is set to the alarm type. 5. When the fault alarm flag is ON, the alarm type is set to the fault alarm. 6. When air calibration is in progress, set the alarm type to OFF. 7. In cases other than the above, confirm whether alarm is issued and set each alarm 7. If the alarm type is OFF and the short buzzer flag is valid, set the alarm type to short buzzer. 9. Turnoff the short buzzer flag. 10. When the alarm type is OFF and the power is not stopped, Perform 11 and 12 processing. 11. When the mode transition LED request flag is ON, Set the alarm type to the mode transition LED. 2. When the low battery buzzer request flag is ON, Set the alarm type to low battery 13. Set the low battery buzzer request flag and mode transition LED request flag to OFF 14. Set alarm type to alarm pattern. 15. Set the alarm cycle operation check request flag to ON.	

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1	Periodic processing for changing the alarm based on the alarm	Perform periodic processing for changing the alarm based on the alarm transition setting table		Retrieve the current data from the alarm transition setting table. If it is not the end of the alarm transition table, the following processes 3 to 5 are	
req[14-8-3-5]	transition setting table			executed. 3. When the buzzer volume setting is LOW, the buzzer volume is set to LOW.	
				When the stealth setting is ON, turn off the buzzer and the LED. When the stealth setting is OFF, set the state to each device.	
	Fetch the current data from the	Retrieve the current data from the alarm transition		Toggle the alarm pattern when the alarm pattern alternates between 1st and 2nd.	
	alarm transition setting table	setting table		Based on the current alarm pattern, take out ON/OFF setting status of buzzer, motor and LED.	
req[14-8-3-6]				Set state to each device. Retrieve the buzzer frequency from the alarm pattern.	
				Set buzzer sound pressure from buzzer frequency.	
req[14-8-3-7]	Alarm Request Analysis	Perform alarm request analysis		Retrieve the alarm pattern in the current state. When the alarm pattern has changed from the previous time, initialize the ringing	
	Mode transition LED control 250msec	Processing every 250 msec to control the mode		parameter. 1. Initialize the mode confirmation flag with OFF.	
	processing	transition LED and buzzer		Initialize the low battery flag with OFF. Initialize 4-second counter with 0.	
				 When the other than measurement mode and display mode, Set the mode confirmation flag to ON. 	
req[14-8-5-1]				When the AIR calibration flag is ON, the mode confirmation flag set to ON. When the battery status flag is below low battery, the low battery flag set to ON.	
104[14001]				 When the mode confirmation flag and low battery flag is OFF, the 4-second counter set to 0. 	
				Increment the 4-second counter. when the 4-second counter has passed 4 seconds, the 4-second counter set to 0	
				and perform the following processing. 10. When the low battery flag is ON, the low battery buzzer request flag set to ON.	
req[14-9-1-1]	Acquisition of motor operation flag	Acquire motion flag of motor		When the low battery flag is OFF, the mode transition LED request flag set to ON. Return the running flag of the motor.	
	ON/OFF control call of vibration motor	Perform ON/OFF control of vibration motor		Set the vibration motor ON/OFF.	
req[14-9-1-3]	Set the vibration motor ON/OFF	Set ON/OFF of vibration motor		When the ON/OFF setting flag is ON, turn on the vibration motor. When the ON/OFF setting flag is OFF, the vibration motor is turned off.	
req[14-10-1-1]	Confirm ON/OFF of key port 10 msec interrupt for key processing	Confirm ON/OFF setting of port of key Performs 10 msec interruption processing for key		Return the key port state confirmation processing. Count down the timeout count.	
req[14-10-1-2]	(every 10 msec)	processing		If the counter every 1 second is 0, after counting down the no-operation timeout count, set the counter every second for 100.	
ren[14-10-1-3]	Confirm port status of key	Confirm the port state of the key		Read the pressed state of the key. 1. Check the port status of the key.	
req[14-10-2-1]	Output ZIPC key event	Perform output process of ZIPC key event		Return key event of ZIPC.	
req[14-10-2-2] req[14-10-2-3]	Acquisition of key reset flag Acquisition of timeout time	Acquire key reset flag Acquire timeout time		Return the release flag of the key. Return timeout count.	
-	Create event for ZIPC of key	Create event for ZIPC of the key		When interrupt processing occurs while pressing the key, execute the following processing 2 to 6.	
req[14-10-2-4]				Failure the presence or absence of an event. Turnoff the old key.	
				4. Put the current key event in the key event of ZIPC. 5. Set the release flag of the key to 2.	
	Set no operation timeout time	Perform exiting process of an exerction times of the		Returns existence of event.	
req[14-10-2-5]		Perform setting process of no operation timeout time		If the non-operation timeout count is 0, turn off the flag at timeout execution. If the non-operation timeout count is other than 0, turn on the flag at timeout execution.	
req[14-10-2-6]	Set timeout time	Perform setting process of timeout time		When the timeout count is 0, turn off the flag when executing no operation timeout. If the timeout count is other than 0, turn on the flag when executing no operation timeout.	
	Confirmation processing of key event state	Performs the key event state deend process	-	If the old key and the new key are the same, press and hold processing is executed. If the old key and the new key are not the same, initialize the key press time.	-
req[14-10-2-7]				When a new key is being pressed, a process corresponding to the pressed key is executed.	
1				If the new key is not pressed, the release flag of the key is initialized. Reset the LCD backlight timer when there is a key event update.	
	Conversion processing of temperature value of RL78 (once per 1 sec)	Conversion processing of the temperature value of RL78 is performed		When the voltage value is 0 mV, set the temperature value to 0°Co When the voltage value is not 0 mV, obtain the maximum voltage value or	
req[14-11-1-1]	value of NE76 (office per 1 sec.)	IXE7 o la perioritieu		the minimum voltage value is the virity, obtain the maximum voltage value of the minimum voltage value. 3. If a combustible sensor is installed, acquire the temperature correction value for	
				installing NC.	
	Pump control initialization processing	Perform pump control initialization processing		Initialize the pump startup processing phase flag. Initialize the variable for 1000msec count.	
req[14-12-1-1]				Initialize the flag backup during pump operation. Stop pump drive.	
				4. Step pump unive. 5. Set Pump LoVHi to Lo. 6. Turn off the pump power.	
	Pump control processing	Perform pump control processing		Initialize the operation switching flag. If the backup operation flag of the pump is different from the operation request, turn ON	
				the operation switching flag. 3. Increment the 1000msec count variable.	
req[14-12-1-2]				A. If the 1000msec count variable is greater than or equal to the default value or if the operation switching flag is ON, process 5 is performed.	
				5. When the operation switching flag is ON, update the pump start processing phase flag according to the operation request and drive the pump.	
	Pump operation phase acquisition	Perform pump operation phase acquisition process		Assign the operation request to the backup flag for pump operation. Returns true if the pump startup processing phase flag is NORMAL or END, otherwise	
req[14-12-1-3]	process Pump operation phase acquisition processing	Perform pump operation phase processing		Teturns rule in the pump startup processing phase liag is NORWAL or END, orienwise returns false. If the pump start processing phase flag is other than END, perform the following.	
req[14-12-1-4]	Tump operation phase processing	r crown pump operation prisace processing		processing. 2. Update the pump startup processing phase flag according to the pump startup	
	Pump operation setting request processing	Perform pump operation setting request processing		If the operation request is ON, set the pump power supply to ON, the pump Lo/Hi to Lo/Hi request, and the pump drive to ON.	
req[14-12-1-5]				If the operation request is OFF, substitute OFF for the pump power, Lo for the pump Lo/Hi, and OFF for the pump drive.	
req[14-12-1-6]	Pump power ON/OFF	Perform pump power ON/OFF		Turn on the pump power port when the ON/OFF request is ON. Turn off the pump power port if the ON/OFF request is OFF.	
req[14-12-1-7]	Pump Lo/Hi setting	Perform pump Lo/Hi setting		Turn ON the pump Lo/Hi port when the Lo/Hi request is Hi. Turn off the pump Lo/Hi port when the Lo/Hi request is Lo.	
req[14-12-1-8]	Pump drive ON/OFF	Perform pump drive ON/OFF		Turn ON the pump drive port when the operation request is ON. Turn off the pump drive port when the operation request is off.	
req[14-12-1-9]	Pump OFF start processing Pump OFF end processing	Perform pump OFF start processing Perform pump OFF end processing		Perform logger measurement stop processing. Perform the following processing when the pump ON/OFF acquisition result is ON.	
1				Update the peak value to the current concentration value. Initialize the integrated value of the average value every 60 seconds.	
req[14-12-1-10]				Initialize the average value for the entire measurement time. Initialize the integrated value from the start of measurement.	
				Initialize the TWA value and TWA buffer. Initialize STEL values, STEL buffers, and buffer pointers.	
				Turn off the resume flag. Perform logger measurement start processing.	
req[14-12-1-11]	Pump OFF display processing	Perform pump OFF display processing		Create character data for OFF display. Create the character data for the pump ON display.	
req[14-12-1-12]	Pump OFF display ONOFF setting start processing	Perform pump OFF display ONOFF setting start processing		Assign the pump OFF display setting to the item selection number.	
req[14-12-1-13]	Pump OFF display ONOFF setting end processing	Perform pump OFF display ONOFF setting end processing		Assign the item selection number to the pump OFF display setting. Turn on the FRAM write start flac. Create a pump ONOFF display character according to the item selection number.	
req[14-12-1-14]	Pump OFF display ONOFF setting display processing	Perform pump OFF display ONOFF setting display processing			
req[14-12-1-15]	Pump OFF display ONOFF setting ONOFF selection processing	Perform pump OFF display ONOFF setting ONOFF selection processing		Swap the ON/OFF setting of the item selection number.	
req[14-12-1-16] req[14-12-1-17]	Pump stop flag setting process Pump stopped flag acquisition	Perform pump stop flag setting process Perform pump stopped flag acquisition process		Substitute the ON/OFF request to the pump stopped flag. Return the pump stop flag.	
	Pump flow rate sensor control initialization processing	Perform pump flow rate sensor control initialization processing		1. Initialize the pump Lo/Hi flag. 2. Initialize the pump Lo/Hi request flag.	
1				2. Initialize the pump running flag. 4. Initialize the pump operation request flag.	
reg[14.43.4.43				Initialize the pump operation request riag. Initialize the pressure sensor output value when the pump is turned off. Initialize the pressure sensor output value at the time of failure.	
req[14-13-1-1]				Initialize the pressure serious output value at the time or failure. Initialize the initial flag after starting the pump. Initialize the determination result at pump boost startup.	
1				B. Initialize the determination result at pump boost startup. Initialize the pump connection test results. 10. Perform pressure sensor control initialization.	
				11. Perform pump control initialization.	
req[14-13-1-2]	startup processing	Perform pump flow rate sensor control device startup processing		Perform pressure sensor control device startup processing.	
req[14-13-1-3]	Pump flow rate sensor control device stop processing	Perform pump flow rate sensor control device stop processing		Perform pressure sensor control device stop processing.	
req[14-13-1-4]	Pump flow rate sensor control device initialization processing	Perform pump flow rate sensor control device initialization processing		Execute the DAC0 output change processing of the pressure sensor control device.	
req[14-13-1-5]	Non-volatile data acquisition processing for pump flow rate sensor	Perform non-volatile data acquisition processing for nump flow rate sensor control		Read setting data for non-volatile memory.	
req[14-13-1-6]	Non-volatile data setting process for pump flow rate sensor control	Perform non-volatile data setting process for pump flow rate sensor control		Return setting data for non-volatile memory.	
req[14-13-1-7]	Non-volatile default data setting processing for pump flow rate sensor	Perform non-volatile default data setting processing for pump flow rate sensor control		Set default data for non-volatile memory.	
req[14-13-1-8]	control	Perform flow drop output acquisition process		Returns the low flow output setting value.	
req[14-13-1-9]	Pressure sensor setting acquisition processing	Perform pressure sensor setting acquisition processing		Return the pressure sensor setting value.	
req[14-13-1-10]	Pressure sensor setting setting processing	Perform pressure sensor setting setting processing		Substitute the pressure sensor adjustment value for the pressure sensor setting value.	
req[14-13-1-11]	Pump Lo/Hi request processing	Perform pump Lo/Hi request processing		 If the Lo/Hi request is Hi, set the pump Lo/Hi flag to Hi, and if it is Lo, set the pump Lo/Hi flag to Lo. 	-
req[14-13-1-12]	Pump Lo/Hi status acquisition process Pump start/stop request processing	Perform pump Lo/Hi status acquisition process Perform pump start/stop request processing		Returns pump Lo'Hi flag. If the operation request is ON, set the pump operation flag to ON, and if it is OFF, set the	-
req[14-13-1-13]	Pump start/stop status acquisition	Perform pump start/stop status acquisition process		pump operation flag to OFF. 1. Return the pump operation flag.	
- odf - 4-10-1-14]	process				

req[14-13-1-15]	Processing every 250msec for pump flow rate sensor control	Perform processing every 250msec for pump flow rate sensor control		1. Get the pump error flag. 2. If the pump is ahormal, perform the pump abnormality setting process and request the pump to stop. If the pump is normal, perform processing 3 to 4. 3. Get the low flow rate error flag. 4. If there is a flow rate drop error, the flow rate drop error setting process is performed and the pump is requested to stop. 6. Perform pump control processing.	
req[14-13-1-16]		Perform pump flow sensor control processing		I. Initialize the operation switching flag. 2. If the operation lag and the operation request flag are different, turn on the operation switching flag. Otherwise, when the operation request flag is ON and the LoHi flag is different from the LoHi request flag, the operation switching flag is turned ON. 3. If the operation switching flag is ON, update the operation flag and LoHi flag. If the operation flag is ON, get the pressure sensor output when the pump is OFF. 4. Perform pump control processing.	
req[14-13-1-17]		Perform purge necessity check process		 Initialize the result flags. Turn ON the result flag when the gas setting is valid, there is no sensor failure, and purge is required. 	
req[14-13-1-18]	Retry necessity acquisition processing at pump boost startup	Perform retry necessity acquisition processing at pump boost startup		 Returns whether or not retry is required when the pump boost starts. 	
req[14-13-1-19]	Processing to acquire pressure sensor output when pump is OFF	Perform processing to acquire pressure sensor output when pump is OFF		Returns the pressure sensor output when the pump is OFF.	
req[14-13-1-20]		Perform failure time pressure sensor output acquisition processing		Returns the pressure sensor output at failure.	
req[14-13-1-21]	Pump connection test process	Perform pump connection test process		Return pump connection test result.	
req[14-13-1-22]	Low flow test process	Perform low flow test process		 Initialize the low flow test result. If the pump operation flag is ON and the result of obtaining the pump operation phase is true, the IN side pressure sensor detects the decrease in flow rate and obtains the result. Return flow reduction test result. 	
req[14-13-1-23]	Processing to acquire pressure sensor output when pump is OFF	Perform processing to acquire pressure sensor output when pump is OFF		Initialize the first flag after starting the pump. Get the pressure sensor output when the pump is off.	
	Pump drive detection processing	Perform pump drive detection processing		3. Initialize the pump test result. 1. Initialize the result flag. 2. Get the current pressure sensor output. 3. Calculate the span output by subtracting the current pressure sensor output from the	
req[14-13-1-24]				pressure sensor output when the pump is OFF. A Pertime if form process 5 when the pump operation flag is ON. When the first time flag after starting the flow rate drop pump is ON and the pump operation phase is ON. If the determination result a pump boost start is NG, set the result flag to abnormal. Institute to the judgment result at pump boost startup and the first time flag is abnormal. Institute the pudgment result at pump boost startup and the first time flag is abnormal. In the first time after starting the flow rate drop pump is OFF and the span output is less than the threshold value, the determination result at pump boost start is set to obsormal. Update the pressure sensor output value at the time of failure. 7. If the result of purging flag acquisition is ON, set normal to the result flag. 8. Return result flag.	
	Low flow rate detection process	Perform low flow rate detection process		Get the H2 measurement flag.	
req[14-13-1-25]				2. If the pump operation flag is ON, perform process 3. 3. When the pump operation phase is ON, the flow rate reduction notification permission mode is enabled, and the HZ measurement flag is OFF, the flow rate reduction judgment is performed and the result flag is substituted. 4. If the purping flag is ON, set the result flag to normal. 5. Return result flag	
req[14-13-1-26]	IN side pressure sensor flow rate drop detection processing	Perform IN side pressure sensor flow rate drop detection processing		1. Initialize the result flag. 2. Get the current pressure sensor output value. 3. Calculate the span output by subtracting the current pressure sensor output from the pressure sensor output when the pump is OFF. 4. If the span output is greater than the Low Flow Threshold setting, set the Result Flag to Abnormal. Update the pressure sensor output value at the time of failure. 5. Return result flag.	
req[14-13-1-27]	Pump drive error setting processing	Perform pump drive error setting processing		Set pump drive error.	
	Flow drop error setting processing	Perform flow drop error setting processing		Set the low flow rate error.	
req[14-13-1-29]	Purge necessity check process (threshold judgment)	Perform purge necessity check process (threshold judgment)		1. Initialize the result flag. 2. If the current concentration is other than the OFF value, perform the following processing. 3. Get the current concentration. 4. Caculate the purge threshold. 5. If the current concentration is greater than the purge threshold, set the result flag to ON. 6. Return result flag.	
req[14-13-1-30]	Pressure sensor control initialization processing	Perform pressure sensor control initialization processing		Perform 12bitDA initial setting processing.	
	Pressure sensor control device startup	Perform pressure sensor control device startup		Get the result of checking the upper and lower limits of the pressure sensor DAC output	
req[14-13-1-31]	processing	processing		%. 2. Perform 12bitDA startup processing.	
req[14-13-1-32]	Pressure sensor control device stop processing	Perform pressure sensor control device stop processing		Perform 12bitDA stop processing.	
req[14-13-1-33]	Pressure sensor control device DAC0	Perform pressure sensor control device DAC0 output		Get the result of checking the upper and lower limits of the pressure sensor DAC output	
req[14-13-1-34]	output change processing Pressure sensor output acquisition	change processing Perform pressure sensor output acquisition		1. Get the output of the pressure sensor.	
	processing Pressure sensor DAC output %	processina Perform pressure sensor DAC output % upper/lower		Return the output of the pressure sensor. If the pressure sensor DAC output % is less than the lower limit, return the lower limit.	
req[14-13-1-35]	upper/lower limit confirmation processing	limit confirmation processing		If the pressure sensor DAC output % is greater than the upper limit, return the upper limit.	
req[14-13-1-36]	Flow drop setting start processing	Perform flow drop setting start processing		Substitute the pressure sensor setting value for the item selection number. Initialize item selection up/down.	
	Flow drop setting end processing Flow drop setting/confirmation end	Perform flow drop setting end processing Perform flow drop setting/confirmation end		Restore the pressure sensor settings. Clear circuit voltage fault.	
req[14-13-1-38]	processing	processing		2. Clear the pump fault.	
req[14-13-1-39]	Flow drop setting display processing	Perform flow drop setting display processing		1. Get the AD value of the pressure sensor. 2. Create AD value display characters. 3. Create the display characters for the pressure sensor settings. 4. Create the text for the reduced flow setting display. 5. Perform pressure sensor control device DACO output chance processing.	
req[14-13-1-40]	Flow drop setting display item	Perform flow drop setting display item selection		Denote the item selection number according to the increase/decrease number.	
reg[14-13-1-41]	Flow drop confirmation start	processing Perform flow drop confirmation start processing		Clear circuit voltage fault.	
		Perform end process for confirming flow drop		Clear the pump fault. Assign the item selection number to the pressure sensor setting.	
16q[14-13-1-42]	Flow drop confirmation display	Perform flow drop confirmation display processing		Turn on the FRAM write start flag. Get the AD value of the pressure sensor.	
req[14-13-1-43]	processing			 Create display characters for AD values. Get the pressure sensor output when the pump is off. Create the display characters for the pressure sensor output when the pump is OFF. Create the display characters for the low flow confirmation display. 	
				6. Get pump test results. 7. If the pump is abnormal, the pump is displayed as abnormal, and if the pump is normal, the clogging on the IN side is judged. If the IN side clogging judgment is abnormal, the flow rate abnormality is displayed.	
req[14-15-1-1]	Power off processing of abnormal time of flammable sensor	Perform power off processing of abnormal time of flammable sensor		When the battery voltage drops or the combustible sensor is abnormal, turn off the original power supply of the combustible sensor.	
req[14-16-1-1]	Oxygen warm up RAM data	Perform oxygen warm up RAM data initialization		turn on the original power supply of the combustible sensor. 1. Perform initialization of RAM data.	
req[14-16-1-2] req[14-16-1-3]	Warm-up processing ON/OFF flag	processing Perform oxygen warm up initial processing Acquire warm up processing ON/OFF flag processing		Substitute warm up start data in the RAM data. Substitute warm up processing ON/OFF flag for the return value.	
	acquisition processing A/D acquisition processing every 10 msec	Acquire A/D value every 10 msec		When the AD value is equal to or larger than the threshold value, the warm up end confirmation counter is incremented. If it is equal to or less than the threshold value, the warm up end check counter.	
req[14-16-1-4]				is decremented and the warm up recheck counter is set to 1. 3. The warm up recheck counter is incremented, and if it is 2 or mone, perform the processing from 3 onward. 4. When the warm up forced end counter is 0 or the warm up end counter is equal to or more than the specified value, terminate the warm up process. 5. If not 4. redo warm up processing.	
req[14-16-1-5]		Acquisition of A/D to be used for concentration		Substitute the AD value for concentration calculation for the return value.	
	processing Oxygen warm up main loop	calculation during warm up Perform oxygen warm up main loop processing		Acquire AD to calculate concentration during warm up.	
req[14-16-1-6]	processing			2. For temperature below -20°C. , substitute in 0 for the warm up operation flag. 3. For temperatures from -20 to below +35°C, substitute in 1 for the warm up operation flag. 4. For temperatures from +35 to below +45°C, substitute in 2 for the warm up operation	
				flag. 5. For temperatures from +45 to below +55°C, substitute in 3 for the warm up operation flag. 6. For temperatures +55°C. or higher, substitute in 4 for the warm up operation flag.	
req[14-16-1-7]	10 msec Interrupt handling processing	Interrupt processing every 10 msec for warm up process		1. Count the timer from warm up port ON to A/D acquisition delay OFF. 2. Allow A/D acquisition permission in the same up port. 3. If the delay OFF timer is non-0, turn on the warm up port. 4. Count the timer from warm up port ON to A/D acquisition delay OFF. 5. If the delay ON timer is non-0, turn off the warm up port. 6. Prohibit A/D acquisition permission flag.	
	Oxygen warm-up port termination	Perform oxygen warm-up port termination processing		7. Decrement counter for warm up forced end. 1. Set Hi when the oxygen warm-up port is Lo.	
req[14-16-1-8]	processing A/D average processing for hydrogen cancellation CO of RL78	Perform A/D average processing (once per 1 second) for hydrogen cancellation CO of RL78		Net Fil when the oxygen warm-up port is Lo. Hydrogen Compensated CO Sensor A/D Use the average buffer to obtain the sensor A/D value.	
	(once every 1 sec) A/D substitution processing for	Performs A/D substitution processing for hydrogen		Each instantaneous value is stored in the hydrogen compensation CO sensor	
req[14-16-1-10]	hydrogen cancellation CO of RL78	cancellation CO of RL78		average buffer. 2. Add the average A/D buffer storage location.	