GX-Force Software Requirement Specification & Test Specification

Document No.GX-Force_SW001

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No.	Date	Version	Revised content	Remarks
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1 Participant Section 2000/000 optical 2000/000 Participant Section 2000/0000 Paritipant Section 2000/000	Request	Classification	Request detail	Requirements	Test case	Pass / fail criteria	Check
	number req[1]		number real 1 - 1 1	NC (Combustible gas) concentration	Zero: AIR		Chicola
No. 1. In our construction Construction for the second secon				calculation	Zero: AIR		
No. 1 1 2 Conservation share in the same intermed in the same					Run CH4 100% LEL in measurement mode	The concentration should be 100% LEL.	
					SPAN: CH4 50% LEL	Concentration should be 50% LEL ± indication accuracy.	
Note of the second se					temperature to -40. 0. 60°C		
					SPAN: CH4 100% LEL	The concentration display should be 120% LEL.	
No. 1 2 CERPTICATE CONSIGNATION CONSIGNATION CONSIGNATION OF CONSIGNA					Zero: AIR	Over-displaying of concentration.	
Note 1 1 2 Comparison of the					Flow CH4 120% LEL in measurement mode		
No. 1 Fig. 2 (1) Fig. 2 (1) </td <td></td> <td></td> <td></td> <td></td> <td>Place in air in measurement mode</td> <td>The concentration display should be 0% LEL.</td> <td></td>					Place in air in measurement mode	The concentration display should be 0% LEL.	
Note Note <t< td=""><td></td><td></td><td></td><td></td><td>SPAN: CH4 100%LEL</td><td>The concentration display should be -10%LEL.</td><td></td></t<>					SPAN: CH4 100%LEL	The concentration display should be -10%LEL.	
Note 1 1 Note Note<					Zero: CH4 11%LEL		
Note: Provide the second						Concentration display should be minus over.	
Note Note <td< td=""><td></td><td></td><td></td><td></td><td>Place in the atmosphere in measurement mode</td><td></td><td></td></td<>					Place in the atmosphere in measurement mode		
Pice 1 1 2 Pice Name					Zero: AIR	Flammahility protection is provided (the concentration display is held	
Image: Part of the second se							
Image: Second					Oxygen Sensor: Enabled		
Image: Second					SPAN: CH4 100%LEL		
Part AB Part AB <t< td=""><td></td><td></td><td></td><td></td><td>in air</td><td></td><td></td></t<>					in air		
Part I Control Part CM Part CM <th< td=""><td>ľ</td><td></td><td></td><td></td><td>Zero: AIR</td><td>ENTER button to return from flormable protection</td><td></td></th<>	ľ				Zero: AIR	ENTER button to return from flormable protection	
Mit 1 2 1 No. 40 N	I				Flow CH4 120%LEL in measurement mode, then place	En en button to return nom nammable protection.	
migration migration manufacture mode manufacture mode manufacture mode migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration manufacture mode manufacture mode manufacture mode manufacture mode Migration m	ľ		req[1 - 2 1	EC (Oxygen/Toxic gas)	AIR: AIR	The oxygen concentration should be 20.9%.	
No. 1 3 Calibration curve provements The surgements The surgement The surgement The surgements <td>ľ</td> <td></td> <td> 1</td> <td></td> <td>Place in air in measurement mode AIR: AIR</td> <td></td> <td></td>	ľ		1		Place in air in measurement mode AIR: AIR		
Image: Second	ľ				O2 20.4% flowing in measurement mode	The oxygen concentration should be 20.9%.	
Main Also The origin concentration should be 20.9%. Image: concentration should be 21.9%. Image: concentration should be 21.9%. Image: concentration should be 21.9%. Image: concentration should be 20.9%. Image: conce					SPAN: N2	The oxygen concentration should be 20.3%.	
Image: Part of the stand standard					AIR: AIR	The ovigen concentration should be 20.9%	
Reg 1 - 2 2 Part Set Section The corganization should be 20.0 (pm. 1) -					O2 21.4% flowing in measurement mode		
model model <td< td=""><td></td><td></td><td></td><td></td><td>SPAN: N2 O2 21.5% flowing in measurement mode</td><td>The oxygen concentration should be 21.5%.</td><td></td></td<>					SPAN: N2 O2 21.5% flowing in measurement mode	The oxygen concentration should be 21.5%.	
ref 1 0 1 0.1 <td></td> <td></td> <td></td> <td></td> <td>SPAN: N2</td> <td>The oxygen concentration should be 40.0%.</td> <td></td>					SPAN: N2	The oxygen concentration should be 40.0%.	
Ref 1 3 Calibration correspondence Disclicity concentration about be 0.000 ppm. Particle 2000 ppm. <td></td> <td></td> <td></td> <td></td> <td>AIR: AIR</td> <td>The ovvigen concentration should be 0.0%</td> <td></td>					AIR: AIR	The ovvigen concentration should be 0.0%	
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ref 1 3 Calibration curve processing First P23 200 Option in measurement mode in measurement mode and set temperature in an in measurement mode in the oxygen terret display should be minus over. Im in the oxygen terret display should be minus over. <td></td> <td></td> <td></td> <td></td> <td>Place in air in measurement mode Zero: AIR</td> <td></td> <td></td>					Place in air in measurement mode Zero: AIR		
reg 1 3 Calibration curve processing SPAN: N2 Phose in air in measurement mode and set temperature index and set temperature index AR Phose in air in measurement mode, and set temperature index and set temperature index AR Trackey concentration should be 20.0 Gpm = indication accuracy. SPAN: N2: S20.0 Gpm Phow N2: S20.0 Gpm The oxygen concentration should be 48.0%. The oxygen concentration should be 0.0%. The oxygen concentration should be 1.0%. <					Flow H2S 200.0ppm in measurement mode	Toxicity concentration shall be 200.0 ppm.	
reg 1 - 3 Calibration curve processing Each 0.80°C Toxicity concentration should be 200.0ppm ± indication accuracy. reg 1 - 3 Calibration curve processing Each 0.80°C Toxicity concentration should be 200.0ppm ± indication accuracy. reg 1 - 3 Calibration curve processing Each 0.80°C Toxicity concentration should be 200.0ppm ± indication accuracy. reg 1 - 3 Calibration curve processing Toxicity concentration should be 200.0ppm. Toxicity concentration display should be over displayed. reg 1 - 3 Calibration curve processing Toxicity concentration display should be -1.0%. Each 0.80°C reg 1 - 3 Calibration curve processing Toxicity concentration display should be minus over. Each 0.80°C reg 1 - 3 Calibration curve processing Toxicity concentration display should be minus over. Each 0.80°C reg 1 - 3 Calibration curve processing Toxicity concentration display should be minus over. Each 0.80°C reg 1 - 3 Calibration curve processing Toxicity concentration display should be minus over. Each 0.80°C reg 1 - 3 Calibration curve processing Toxicity concentration display should be minus over. Each 0.80°C					SPAN: N2	Oxygen concentration should be 20.9% ± indication accuracy.	
reg 1 3 Calibration curve processing For VES 200.0pm in measurement mode, and set Colority concentration is should be 26.0%, if the curve is the					to -40, 0, 60°C		
Image: Series of the state					Flow H2S 200.0ppm in measurement mode, and set	Toxicity concentration should be 200.0ppm \pm indication accuracy.	
Flow 02 495LEL in User mode AIRCAL screen ************************************					AIR: AIR		
spAN H2S 200 Oppm Toxicity concentration shall be 240.0 ppm. ARE: ARE SpAN H2S 220 Oppm Toxicity concentration display should be over displayed. D2 48% LEI Llowing in measurement mode Toxicity concentration indication should be over displayed. Image: Concentration display should be over displayed. D2 48% LEI Llowing in measurement mode Toxicity concentration indication should be over displayed. Image: Concentration display should be 0.0%. Rice ARE: AR SPAN 02 0.5 The oxygen concentration display should be 0.0%. Image: Concentration display should be 0.0%. Place In air in measurement mode ARE: AR The oxygen concentration display should be 0.0%. Image: Concentration display should be 1.0%. Place In air in measurement mode The oxygen concentration display should be 1.0%. Image: Concentration display should be 1.0%. Image: Concentration display should be 1.0%. Place In air in measurement mode The oxygen concentration indication should be -1.0%. Image: Concentration indication should be -1.0%. Image: Concentration indication should be -1.0%. Place In air In measurement mode The toxicity concentration indication should be -1.0%. Image: Concentration indication should be -1.0%. Place In air In measurement mode The toxicity concentration indication should be -1.0.0 ppm. Image: Concentration indication should be -1.0.0 ppm.					Flow O2 48%LEL in User mode AIRCAL screen	The oxygen concentration should be 48.0%.	
Image: Second					SPAN: H2S 200.0ppm	Toxicity concentration shall be 240.0 ppm.	
Image: second					AIR: AIR	The everyon concentration display should be ever displayed	
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Image: Part of the second s	ľ				SPAN: H2S 200.0ppm	Toxicity concentration indication should be over displayed.	
Image: Instrument Index Air: Air R The oxygen concentration display should be -1.0%. SPAN: C02 1.0 The oxygen concentration display should be -1.0%. Image: Instrument Index Air: Air R SPAN: C02 1.1 The oxygen level display should be minus over. SPAN: C02 1.1 The oxygen level display should be minus over. Image: Ima	ľ				AIR: AIR SPAN: O2 0.5	The oxygen concentration display should be 0.0%.	
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req[1 - 4] Zero tracking Run H2S 0.5ppm Run H2S 0.5ppm Run execution to a second sin measurement mode To update the zero point is out of alignment for 30 seconds continuously.	ľ					100% as a percentage.	
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Run O2 20.0% for 30 seconds in measurement mode H2S 0.5ppm Zrote tracking process	ľ		req[1 - 4 1	Zero tracking		To update the zero point with the current value within a certain range	
H2S 0.5ppm Zore tracking process	ľ						
	ľ						

		H2S 0.5ppm	Zero trading process	
		Display mode	Zero tracking process.	
		H2S 0.5ppm	No zero tradica proceso	
		User mode	No zero tracking process.	
		Setting via communication	Can be turned on and off in the settings.	
		Setting via communication	Whether to allow users to set ON/OFF, ON/OFF can be set.	

		roal					Another second block and a second state and second state of the based	
- 1		reqt	1 -	5]	Zero suppression	H2S 0.3ppm	Apply smoothing processing at the specified value, and the displayed concentration should be 0.0 ppm.	
						H2S 0.3ppm Measurement mode	Zero suppression process.	
						H2S 0.3ppm Display mode	Zero suppression process.	
						H2S 0.3ppm User mode	Do not perform zero-suppress processing.	
						Setting via communication	Can be turned on and off in the settings.	
						Setting via communication Suppress ON	Whether to allow users to set ON/OFF, ON/OFF can be set. Zero suppression process.	
						H2S -0.3ppm Suppress OFF		
		real	rog[1 6]	6 1	Peak value calculation	H2S -0.3ppm	Do not perform zero-suppress processing. To update the MIN/MAX value/time of the concentration for each	
				- ,		Measurement mode	concentration calculation.	
							Display mode	To update the MIN/MAX value/time of the concentration for each concentration calculation.
						user mode	Do not update the MIN/MAX value of the concentration/time at that time.	
						Maintenance mode	Do not update the MIN/MAX value of the concentration/time at that	
							time. Do not update the MIN/MAX value of the concentration/time at that	
		req[1 -	7 1	Peak value display	factory mode Display mode	time.	
		TEYL		' '		Display mode	Except for oxygen, the peak (MAX) value should be displayed. Oxygen should display peak (MIN) values.	
		req[1 -	8]	Peak value reset	Peak value display screen Press and hold AIR1sec.	"CLEAR" and "HOLD" should be displayed.	
						Peak value display screen	"CLEAR" and "RELEASE" should be displayed.	
						Press and hold AIR for 3 seconds Peak value display screen	To update the MIN/MAX values of concentration and time with the	
						Release the AIR button while "RELEASE" is displayed.	current values.	
		req[1 -	9]	Average calculation	Measurement mode	Integrating numerical values for each concentration calculation and calculating the average value for one minute at a time (used only for	
					, STEL value calculation		logger and STEL calculations). Monitoring the concentration of toxicity and updating the STEL value	
		req[1 -	10]		Measurement mode	for each concentration calculation.	
						Measurement mode	STEL value shall be calculated by (average value of 60 seconds accumulated for 15 minutes every minute)/15.	
		req[1 -	11]	STEL value display	Display mode	STEL values for toxic gases shall be indicated.	
			4	40.5	TWA value calculation	Display mode	STEL values other than for toxic gases shall not be indicated. Monitor the concentration of toxicity for each concentration	
		req[1 -	12]	1	Measurement mode	calculation and update the TWA value.	
						Measurement mode	TWA value should be calculated as (average value of 60 seconds integrated every minute for 8 hours)/480.	
		req[1 -	13]] TWA value display	Display mode	TWA values for toxic gases shall be indicated.	
					Cumulative (AVRG) value calculation	Display mode	TWA values for gases other than toxic gases shall not be indicated. To monitor the concentration of toxicity and update the integrated	
		req[1 -	14]		Measurement mode	(AVRG) value for each concentration calculation.	
						Measurement mode	TWA value should be calculated as (average value of 60 seconds, accumulated for 1 hour every minute)/60.	
		real	1 -	15]	Cumulative (AVRG) value display	Display mode	Indicate the total (AVRG) value of toxic gases.	
		11			1		Totalized (AVRG) values other than those for toxic gases shall not be	
_	Gas alarm	<u> </u>			Gas warning notification	Display mode H2S 1st Alarm 25.0ppm	indicated.	
ľ		req[2 -	1]		Run H2S 25.0ppm in measurement mode	Displaying alarm message.	
						H2S 1st Alarm 25.0ppm Run H2S 25.0ppm in measurement mode	Buzzer, vibration motor, and LED should work.	
						H2S 1st Alarm 25.0ppm Run H2S 25.0ppm in measurement mode	LCD backlight must be always on.	
						CH4 1st/2nd/3rd 25%LEL/50%LEL/55%LEL	The 1st alarm is triggered. (The priority order of the combustibility sensor's alarm points should	
						CH4 25%LEL in measurement mode	be 1st<2nd<3rd <over, alarm="" and="" combustibility="" pattern<="" sensor's="" td="" the=""></over,>	
							should be H-HH.) The 2nd alarm is triggered.	
						CH4 1st/2nd/3rd 25%LEL/50%LEL/55%LEL CH4 50%LEL in measurement mode	(The priority of the combustibility sensor's alarm points should be 1st<2nd<3rd <over, alarm="" and="" combustibility="" pattern<="" sensor's="" td="" the=""></over,>	
							should be H-HH.) The 3rd alarm is triggered.	
						CH4 1st/2nd/3rd 25%LEL/50%LEL/55%LEL Run CH4 55%LEL in measurement mode	(The priority order of the combustibility sensor's alarm points should be 1st<2nd<3rd <over, alarm="" and="" combustibility="" pattern<="" sensor's="" td="" the=""></over,>	
I.							Should be H-HH.) OVER alarm will be issued.	
					1	CH4 1st/2nd/3rd 25%LEL/50%LEL/55%LEL	(The priority order of the combustibility sensor's alarm points should	
						CH4 120%LEL in measurement mode	be 1st<2nd<3rd <over, alarm="" and="" combustibility="" pattern<="" sensor's="" td="" the=""></over,>	
							should be H-HH.)	
						O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be	
						O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 18.0% in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3rd-OVER, and the oxygen sensor's alarm pattern should be 1-11-H.)	
						Flow O2 18.0% in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3rid-OVER, and the oxygen sensor's alarm pattern should be L-LL-H.) 2nd alarm will be issued.	
							should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3rd-OVER, and the oxygen sensor's alarm pattern should be L-LL-H.) 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3rd-OVER, and the oxygen sensor's alarm pattern should be L-LL-H.) 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be L-LL-H.) 3rd alarm will be issued.	
						Flow O2 18.0% in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be (Interpriority of the oxygen sensor's alarm point should be 1st-2nd-3rd-OVER, and the oxygen sensor's alarm pattern should be 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 2nd alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d-COVER, and the oxygen sensor's alarm pattern should be L-LL-H.) 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3dr4-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3dr4-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3dr4-OVER, and the oxygen sensor alarm pattern should be (The priority order of the oxygen sensor alarm points should be	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d-OVER, and the oxygen sensor's alarm pattern should be I-LL-H.) 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be L-LL-H.) 3rd alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be L-LL-H.) 3rd alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be L-LL-H.) OVER alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be L-LL-H.) OVER alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be L-LL-H.)	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d7-6VER, and the oxygen sensor's alarm pattern should be I-LL-H.1 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3d7-6VER, and the oxygen sensor alarm pattern should be LL-H.1 3rd alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be 1st-2nd-3d7-6VER, and the oxygen sensor alarm pattern should be 1st-2nd-3d7-6VER, and the oxygen sensor alarm pattern should be LL-H.1 OVER alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be 1st-2nd-3d7-6VER, and the oxygen sensor alarm pattern should be 1st-2nd-3d	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3rd-OVER, and the oxygen sensor's alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-COVER.	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority order of the oxygen sensor's alarm point should be 1st-2nd-3rd-OVER, and the oxygen sensor's alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER. TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3dt-OVER, and the oxygen sensor's alarm pattern should be L_LL-H.) 2nd alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be 1st-2nd-3dt-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3dt-OVER, and the oxygen sensor alarm pattern should be L_LL-H.) 3rd alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be 1st-2nd-3dt-OVER, and the oxygen sensor alarm pattern the pattern of the toxicity sensor should be H-HH)	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d-OVER, and the oxygen sensor's alarm pattern should be 1st-2nd-3d-OVER, and the oxygen sensor alarm points should be 1st-2nd-3d-COVER, and the oxygen sensor alarm points should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER. The priority order of the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER. The 1st alarm will be issued.	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 C2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0.0ppm in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d-OVER, and the oxygen sensor's alarm pattern should be 1st-2nd-3d-OVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CAU-AU. 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3d-CAU-AU. 3rd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3d-CAU-AU. 3rd alarm will be issued. (The priority order of the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER. The 1st alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-COVER. The 1st alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-COVER. The 2nd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-COVER. The 2nd alarm will be issued. The toxicity sensor should be 1st-2nd-3d-COVER. The 2nd alarm will be issued. The toxicity sensor should be 1st-2nd-3d-COVER. The 1st alarm will be	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Plow D2 25.0% in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d-OVER, and the oxygen sensor's alarm pattern should be 1st-2nd-3d-OVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CA-UVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CA-UVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CA-UVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CA-UVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CA-UVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CA-UVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CA-UVER, TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3d-OVER-TWA(AVRG)-STEL, and the the patternd of the toxicity sensor should be 1st-2nd-3d-2d-OVERE	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 10.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 11.0ppm in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d-OVER, and the oxygen sensor's alarm pattern should be 1st-2nd-3d-OVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CAU-EVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CAU-EVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CAU-EVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CAU-EVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CAU-EVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CAU-EVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-COVER-TWA(AVRG) <stel, 1st-2nd-3d-cover-twa(avrg)<stel,="" alarm="" and="" be="" of="" pattern="" sensor="" should="" td="" the="" toxicity="" toxicity<=""></stel,>	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 C2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Plow H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0/ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3dr-OVER, and the oxygen sensor's alarm pattern should be L-LL-H.) 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-3dr-OVER, and the oxygen sensor alarm points should be 1st-2nd-3dr-OVER, and the oxygen sensor alarm points should be 1st-2nd-3dr-OVER, and the oxygen sensor alarm points should be (The priority order of the oxygen sensor alarm points should be 1st-2nd-3dr-OVER, and the oxygen sensor alarm points should be (The priority order of the oxygen sensor alarm points should be 1st-2nd-3dr-OVER, and the oxygen sensor alarm points should be (Ithe priority order of the alarm points of the toxicity sensor should be 1st-2nd-3dr-OVER, and the oxygen sensor alarm points should be 1st-2nd-3dr-OVER, and the oxygen sensor alarm points should be 1st-2nd-3dr-OVER. TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH.] The 2nd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3dr-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH.] The 3d alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3dr-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH.] The 3d alarm will be issued.	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Co 2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 10.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 15t/2nd/3rd 1.0ppm/10.0ppm H2S 1st/2nd/3rd 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3rd-OVER, and the oxygen sensor's alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, TW/A(NRG)-STEL, and the toxicity sensor should be 1st-2nd-3rd-OVER, TW/A(NRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3rd-OVER, TW/A(NRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3rd-OVER, TW/A(NRG)-STEL, and the alarm pattern of the toxicity sensor should be 1st-2nd-3rd-OVER, TW/A(NRG)-STEL, and the toxicity sensor's alarm pattern of the toxicity sensor should be 1st-2nd-3rd-StG_STEL, and the toxicity sensor's alarm	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Cl 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 D2 1st / 2nd / 3rd 18.0% / 17.0% / 10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Run H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3rd-OVER, and the oxygen sensor's alarm pattern should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-3rd-OVER, and the oxygen sensor should be 1st-2nd-3rd-OVER, TWA(AVRG) <stel, 1st-2nd-3rd-over-twa(avrg)<stel,="" alarm="" and="" be="" of="" points="" senso<="" sensor="" sensor's="" should="" td="" the="" toxicity=""></stel,>	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 10.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Run H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 240.0ppm in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d-OVER, and the oxygen sensor's alarm pattern should be 1st-2nd-3d-OVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, and the oxygen sensor alarm pattern should be 1st-2nd-3d-CoVER, TVM(AVRG) <stel, 1+hh).<="" 1st-2nd-3d-cover,="" alarm="" and="" be="" of="" pattern="" points="" sensor="" sensor's="" should="" td="" the="" toxicity="" tvm(avrg)<stel,=""></stel,>	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 10.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/1.0ppm Flow H2S 240.0ppm in measurement mode H2S STEL/TWA 1.0ppm/10.0ppm Run H2S 1.0ppm for 15 minutes in measurement mode H2S STEL/TWA 10.0ppm/1.0ppm Run H2S 1.0ppm flow flow R hours in measurement mode	should be H-HH.) The 1st alarm is issued. (The priority order of the oxygen sensor's alarm point should be 1st-2nd-3d-OVER, and the oxygen sensor's alarm points should be 1st-2nd-3d-OVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CVER, and the oxygen sensor alarm points should be 1st-2nd-3d-COVER, TWA(AVRG)-STEL, and the alarm pattern of 1ne toxicity sensor should be H-HH) The 2nd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-COVER-TWA(AVRG)-STEL, and the alarm pattern of 1ne toxicity sensor should be H-HH) The 2nd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-COVER-TWA(AVRG)-STEL, and the alarm pattern of 1ne toxicity sensor should be H-HH) OVER alarm will be issued. (The priority order of the toxicity sensor should be 1st-2nd-3d-COVER-TWA(AVRG)-STEL, and the alarm pattern of 1ne toxicity sensor should be H-HH) OVER alarm will be issued. (The priority order of the toxicity sensor's alarm pattern should be 1st-2nd-3d-COVER-TWA(AVRG)-STEL, and the toxicity sensor's alarm pattern should be H-HH) STE alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-COVER-TWA(AVRG)-STEL, and the toxicity sensor's alarm pattern should be H-HH) STEL alarm will be issued. (The priority order of the	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 10.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Run H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/1.0ppm Flow H2S 240.0ppm in measurement mode H2S STEL/TWA 1.0ppm/1.0ppm Run H2S 1.0ppm flowing for 8 hours in measurement mode H2S STEL/TWA 10.0ppm/1.0ppm H2S STEL/TWA 10.0ppm/1.0ppm	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-33rd-OVER, and the oxygen sensor's alarm points should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HHI The 2nd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HHI The 3rd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HHI OVER alarm will be issued. (The priority order of the alarm points of the toxicity sensor's alarm pattern should be H-HHI STEL alarm will be issued. (The priority order of the alarm points of the toxicity sensor's alarm pattern should be H-HHI STEL alarm will be issued. (The priority order of the alarm points of the toxicity sensor's alarm pattern should be H-HHI STEL alarm will be issued. (The priority order of the alarm points of the toxicity sensor's alarm pattern should be H-HHI STEL alarm will be issued. (The priority order of the alarm points of the toxicity sensor	
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						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 4st / 2nd / 3rd 18.0% / 17.0% / 10.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Run H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/1.0ppm Flow H2S 240.0ppm in measurement mode H2S STEL/TWA 1.0ppm/1.0ppm Run H2S 1.0ppm flowing for 8 hours in measurement mode H2S STEL/TWA 10.0ppm/1.0ppm H2S STEL/TWA 10.0ppm/1.0ppm	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-33rd-OVER, and the oxygen sensor's alarm pattern should be L-LL-H.) 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-33rd-OVER. The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH. The 3rd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH. The 3rd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH. STEL alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH. STEL alarm will be issued. (The priority order of the toxicity sensor's alarm points should be 1st-2nd-3rd-OVER-TWA(AVRG)-STEL.) TWA alarm will be issued. (The priority order of the toxicity sensor's alarm points should be 1st-2nd-3rd-OVER-TWA(AVRG)-STEL.) TWA alarm will be issued. (The priority order of the alarm poin	
						Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 10.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Run H2S 11.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 240.0ppm in measurement mode H2S STEL/TWA 1.0ppm/1.0ppm H2S STEL/TWA 1.0ppm/1.0ppm H2S STEL/TWA 1.0ppm/1.0ppm Automatic return Alarm silence ON Alarm silence OFF	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-33rd-OVER, and the oxygen sensor's alarm pattern should be L-LL-H.) 2nd alarm will be issued. (The priority order of the oxygen sensor alarm points should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm pattern should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-33rd-OVER, and the oxygen sensor alarm points should be 1st-2nd-33rd-OVER. The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH. The 3rd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH. The 3rd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH. STEL alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-33rd-OVER-TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH. STEL alarm will be issued. (The priority order of the toxicity sensor's alarm points should be 1st-2nd-3rd-OVER-TWA(AVRG)-STEL.) TWA alarm will be issued. (The priority order of the toxicity sensor's alarm points should be 1st-2nd-3rd-OVER-TWA(AVRG)-STEL.) TWA alarm will be issued. (The priority order of the alarm poin	
			2		Alarm point setting	Flow O2 18.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 17.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 Flow O2 25.0% in measurement mode O2 1st / 2nd / 3rd 18.0% / 17.0% / 25.0 O2 48.0% flowing in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 1.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 10.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 10.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/11.0ppm Flow H2S 10.0ppm in measurement mode H2S 1st/2nd/3rd 1.0ppm/10.0ppm/1.0ppm Run H2S 1.0ppm in measurement mode H2S STEL/TWA 10.0ppm/1.0ppm Run H2S 1.0ppm flow flow flow flow flow flow flow flow	should be H-HH.) The 1st alarm is issued. (The priority of the oxygen sensor's alarm point should be 1st-2nd-3d-OVER, and the oxygen sensor's alarm points should be 1st-2nd-3d-OVER, and the oxygen sensor alarm points should be 1st-2nd-3d-CoVER, TWA(AVRG)-STEL, and the alarm pattern of the toxicity sensor should be H-HH.) The 2nd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-CoVER-TWA(AVRG) <stel, alarm="" and="" of<br="" pattern="" the="">the toxicity sensor should be H-HH.) The 2nd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-CoVER-TWA(AVRG)<stel, alarm="" and="" of<br="" pattern="" the="">the toxicity sensor should be H-HH.) The 3rd alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-CoVER-TWA(AVRG)<stel, and="" of<br="" pattern="" talarm="" the="">the toxicity sensor should be H-HH.) STEL alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-CoVER-TWA(AVRG)<stel). Wa alarm will be issued. (The priority order of the alarm points of the toxicity sensor should be 1st-2nd-3d-CoVER-TWA(AVRG)<stel). Maintain alarm unless alarm is reset (key pressed). To automatically stop the alarm when the gas concentration no longer meets the</stel). </stel). </stel,></stel,></stel,>	

	Setting via communication	Ability to set the 2nd alarm point of the oxygen sensor.
	Setting via communication	Ability to set the 3rd alarm point of the oxygen sensor.
	Setting via communication	Ability to set the 1st alarm point of the toxicity sensor.
	Setting via communication	Ability to set the 2nd alarm point of the toxicity sensor.
	Setting via communication	Ability to set the 3rd alarm point of the toxicity sensor.
	Setting via communication	Ability to set TWA (AVRG) alarm points for toxicity sensors.
	Setting via communication	The STEL alarm point of the toxicity sensor must be configurable.
req[2 - 3] Latching / au	comatic reset setting Setting via communication	Ability to set whether to self-hold or auto-recover.
req[2 - 4] TWA/Cumula	tive selection setting Setting via communication	Ability to set whether CO TWA alarm or totalization alarm.
req[2 - 5] All gas alarm	OFF setting Setting via communication	All gas alarms must be able to be turned on and off at once.
-	Setting via communication	Must be configurable only with configuration software.
req[2 - 6] Alarm silence	setting Setting via communication	Ability to set alarm silence ON/OFF.

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req[3]	Fault alarm	req[3 - 1]	Fault warning notification	Failure indication mode Failure indication mode	Displaying fault messages. Buzzer and LED should work.	
1				Failure indication mode	LCD backlight must be always on.	
1				Failure indication mode Failure indication mode	Communication must be possible during fault message display. A fault that can be recovered should be recovered by pressing the	
1					ENTER key briefly. Non-recoverable faults shall not be recoverable unless the power is	
1				Failure indication mode Failure indication mode	turned off.	
1		req[3 - 2]	Self-diagnosis	Start with a SUM value different from the calculated	Latching (no automatic recovery) operation.	
1		.ou. 5 - 2]		value	To be a post-initial ROM failure.	
1				RAM address rewriting during RAM check Startup by partially rewriting the data in non-volatile	To be a post-initial RAM failure.	
1				memory	To be a post-initial non-volatile memory failure.	
1				Set the RTC to an abnormal value and start Start by dropping the circuit voltage	To be an internal clock failure after initialization.	
1				(SV,MV,ECV1,ECV2,ECV3,HCV,PZF) to GND. Changed thermistor AD value to -55°C equivalent	Circuit voltage failure after initialization.	
1				Start by removing the combustibility sensor.	Thermistor failure after initialization. To be a sensor failure.	
				Remove the oxygen sensor and start it up. Remove and activate toxicity sensor.	To be a sensor failure. To be a sensor failure.	
				Reduce lithium-ion battery voltage to less than 3.4V	To be a battery voltage drop failure.	
				Remove the sensor circuit and start up Clog the gas flow passage and start up	To be a sensor circuit failure. To be a flow failure.	
req[4]	Test	req[4 - 1]	BUMP test	Remove the pump and start up User Mode	To be a pump failure. It should be possible to apply the gas and check if the concentration	
		req[4 - 1]		Bump test User mode	reaches the set threshold within a certain period of time.	
				Test failure in bump test	Can be calibrated with the gas being used (BUMP calibration).	
				User mode End of Bump Test	To display the results of executing BUMP.	
				Setting via communication Setting via communication	Ability to set the conditions (time) for the BUMP test. Ability to set conditions (thresholds) for the BUMP test.	-
				Setting via communication	Ability to set the conditions (time) for BUMP calibration.	
		req[4 - 2]	Gas alarm test	Setting via communication Display mode	Ability to set the BUMP calibration ON/OFF.	
		······································		ENTER in the alarm point display screen (1st) Display mode	Able to run the 1st alarm test.	
				ENTER in the alarm point display screen (2nd)	Able to run 2nd alarm test.	
				Display mode ENTER in the alarm point display screen (3rd)	Able to run 3rd alarm test.	
				Display mode ENTER in the alarm point display screen (F.S.)	Be able to run tests on OVER alarms.	
				Display mode ENTER in the alarm point display screen (TWA)	Must be able to run tests on TWA alarms.	
				Display mode	Able to perform integration alarm testing.	
				ENTER in the alarm point display screen (integration) Display mode	Be able to run STEL alarm tests.	
req[5]	Sensor adjustment	regi 5 - 1 1	Manual zero (air) calibration	ENTER in the alarm point display screen (STEL) User Mode		
		iou[0 - 1]		AIRCAL Screen Maintenance Mode	Ability to perform zero (air) calibration.	
				AIRCAL screen	Ability to perform zero (air) calibration.	
				Run AIRCAL. Run AIRCAL.	Set to 0 for all but oxygen. For oxygen, set to 20.9.	
		100 C C C	Demand zero calibration	Run AIRCAL with O2 0.0% flowing Measurement mode	Air calibration fails and air calibration error is displayed.	
		req[5 - 2]		Press and hold the AIR button.	Must be able to perform air calibration.	
				Measurement mode While holding down the AIR button	Display a confirmation screen.	
		real 5 2 3	Auto zero calibration	Setting via communication Auto zero ON	Ability to set demand zero on/off.	
		ະອະເບີດ		Initial mode Auto zero ON	Air calibration shall be performed at the end of the initial.	
				Initial mode Auto zero ON	Prompting the user to confirm whether to perform auto-calibration.	
				Initial mode	Transition to the measurement screen without executing auto-zero.	
				No operation for 15 seconds on auto calibration confirmation screen	reasons to the measurement solden without executing auto-200.	
				Auto zero ON		
				Initial mode Select auto-zero execution on the auto-calibration	Running auto-zero.	
				confirmation screen. Auto zero ON		
				Initial mode Select auto-zero non-execution on the auto-calibration	Do not run auto-zero.	
				confirmation screen.		
				Auto zero ON Initial mode	If air calibration fails, ratry process up to three times	
				Select auto-zero execution on the auto-calibration confirmation screen.	If air calibration fails, retry process up to three times.	
			Auto (apon) colib	Setting via communication	Ability to set auto-zero ON/OFF.	
		req[5 - 4]	Auto (span) calibration	User Mode AUTOCAL screen	Ability to perform auto-calibration.	
				Maintenance Mode AUTOCAL screen	Ability to perform auto-calibration.	
				Maintenance Mode AUTOCAL screen	Can be calibrated for all gases simultaneously.	
				Maintenance Mode	Gases to be calibrated simultaneously can be specified.	
				AUTOCAL screen Maintenance Mode	Ability to calibrate all gases individually.	
				AUTOCAL screen Setting via communication	Ability to set which gas types to calibrate.	
				Maintenance Mode AUTOCAL screen	Calibrate with the pre-specified calibration concentration value.	
				Setting via communication	Ability to change the calibration concentration value.	
				O2 calibration concentration 12.0% Run AUTOCAL at O2 40.0%.	Auto-calibration should fail and produce an error.	
		req[5 - 5]	Calibration expiration	Domestic specifications Calibration deadline display ON Initial mode	No indication regarding the calibration period shall be provided.	
				Export Specifications Calibration deadline display ON Initial mode	Perform the process of checking whether the calibration deadline has expired and provide an indication regarding the calibration deadline.	
				Setting via communication	The calibration expiry action can be selected from "Use after	
				Export Specifications Calibration deadline display ON	confirmation", "Do not use", and "Do nothing". The number of days remaining until the calibration deadline should	
				Initial mode No expired sensor Export Specifications	be displayed.	
				Calibration deadline display ON Initial mode	The expiration date is displayed and can be confirmed (released) with a short press of the ENTER key.	
				Expired sensor is present Expired operation: Use after confirmation Export Specifications		
				Export Specifications Calibration deadline display ON		
				Initial mode	Do not display expired and transition to the next item.	
				Expired sensor is present Expired operation: Use prohibited Export Specifications		
1				Export Specifications Calibration deadline display ON		
1				Initial mode	Display expiration date and transition to the next item after 6 seconds.	
				Expired sensor is present Expired operation: Do nothing		
				Setting via communication	Calibration deadline display "ON/OFF" can be set.	
				Setting via communication	Ability to select and set the number of days from 1 to 1000 days until the calibration deadline.	
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		req[5 - 6]	Bump expiration	BUMP deadline display ON Initial mode	Processing to check if the BUMP deadline has expired and displaying information about the BUMP deadline.	
				No BUMP expired sensor	The ✓ mark should be displayed.	
				Normal startup Setting via communication	BUMP expiration behavior can be selected from "Use after	
				BUMP deadline display ON	confirmation", "Do not use", and "Do nothing".	
				Initial mode	To display the number of days remaining until the BUMP expires.	1
				No BUMP expiry sensor BUMP deadline display ON		
				Initial mode BUMP expired sensor is present	The expiration date is displayed and can be confirmed (released) with a short press of the ENTER key.	
				BUMP expired operation: Use after confirmation BUMP deadline display ON		
				Initial mode	Do not display expired and transition to the next item.	
				BUMP expired sensor is present BUMP expired operation: use prohibited		
				BUMP deadline display ON Initial mode	Transition to the next item of an 0 areas do	
				BUMP expiry sensor is present BUMP expiry action: No action	Transition to the next item after 6 seconds.	
				Setting via communication	Ability to set the BUMP deadline display "ON/OFF".	
				Setting via communication	Ability to select and set the number of days until the BUMP deadline from 0 to 365 days.	
		req[5 - 7]	Maintenance expiration	Domestic specifications	Perform a check process to see if the maintenance deadline has	
		ieq[5 - 7]		Maintenance deadline display ON Initial mode	expired and display information about the maintenance deadline.	
				Export Specifications Maintenance deadline display ON	No indication regarding maintenance deadlines.	
				Initial mode Maintenance mode	The maintenance expiration date and time should be able to be	
				Maintenance deadline setting screen	cleared to "0 year, 0 month, 0 day" by keystroke.	
				initial mode	The maintenance expiration date and time should be updated with the current date and time when the main unit is turned on, if it is "0 year,	
					0 month, 0 day". Maintenance expiration behavior can be selected from "Use after	
				Setting via communication	confirmation", "Do not use", and "Do nothing".	
				Domestic specifications Maintenance deadline display ON	Disclaration and data	
				Initial mode No maintenance expiry sensor	Display the number of days remaining until the maintenance expires.	
				Domestic specifications		
				Maintenance deadline display ON Initial mode	The expiration date is displayed and can be confirmed (released) with	
				There is a maintenance expiration sensor Maintenance expired operation: Use after confirmation	a short press of the ENTER key.	
				Domestic specifications Maintenance deadline display ON		
				Initial mode	Do not display expired and transition to the next item.	
				There is a maintenance expiry sensor Maintenance expiry operation: Use prohibited		
				Domestic specifications Maintenance deadline display ON		
				Initial mode	Display expiration date and transition to the next item after 6 seconds.	
				There is a maintenance expiry sensor Maintenance expired operation: No action		
				Setting via communication	The maintenance deadline display can be set to "ON/OFF". Ability to select and set the number of days from 1 to 1000 days until	
				Setting via communication	the maintenance deadline.	
		req[5 - 8]	Gas information setting	Setting via communication	Owners working the set (ON/OFF (see as how the day of the	
					Sensor combination can be set (ON/OFF for each of the 4 sensors).	
		104[0 - 0]		Setting via communication	Ability to set each sensor ON/OFF.	
				Setting via communication All sensors OFF Initial mode	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization.	
req[6]	Equipment adjustment		Display adjustment	Setting via communication All sensors OFF	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable.	
req[6]	Equipment adjustment	req[6 - 1]	Display adjustment	Setting via communication All sensors OFF Initial mode Setting via communication	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable. LCD backlight should be on.	
req[6]	Equipment adjustment		Display adjustment	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press anv kev Measurement mode Optional qas alarm triggering	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable.	
req[6]	Equipment adjustment		Display adjustment	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press anv kev Measurement mode Optional cas alarm triggering Measurement mode Backlight OFF time: 10 seconds	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable. LCD backlight should be on.	
req[6]	Equipment adjustment		Display adjustment	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press anv key Measurement mode Optional ass alarm triggering Measurement mode Backlight OFF time: 10 seconds No operation	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable. LCD backlight should be on. LCD backlight should be on.	
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req[6]	Equipment adjustment			Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press anv kev Measurement mode Optional gas alarm triggering Measurement mode Backlight OFF time: 10 seconds No operation Setting via communication Connect to SDM User mode Press anv button Setting via communication	Ability to set each sensor ON/OFF.	
req[6]	Equipment adjustment	req[6 - 1] req[6 - 2]	Key operation sound Confirmation beep	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press anv key Measurement mode Optional gas alarm triggering Measurement mode Backlight OFF time: 10 seconds No operation Setting via communication Connect to SDM User mode Press any button Setting via communication Confirmation beep: BUZZER	Ability to set each sensor ON/OFF.	
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req[6]	Equipment adjustment	req[6 - 1] req[6 - 2]	Key operation sound Confirmation beep	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press anv kev Measurement mode Backlight OFF time: 10 seconds No operation Setting via communication Connect to SDM User mode Press anv button Setting via communication Confirmation heep: BUZZER Confirmation beep: BUZZER Setting via communication Confirmation beep: BUZZER	Ability to set each sensor ON/OFF.	
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req[6]	Equipment adjustment	req[6 - 1] req[6 - 2] req[6 - 3]	Key operation sound Confirmation beep Lunch Break	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press any key Measurement mode Optional gas alarm triqgering Measurement mode December of time: 10 seconds No operation Setting via communication Connect to SDM User mode Press any buton Setting via communication Confirmation help: BUZZER Confirmation help: BUAZER Confirmation help: BUAZER Confirmation help: BUAZER Confirmation help: BUAP Confirmation help: BUAP Confirmation help: ALRM Confirmation help: ALRM Confirmation help: ALRM Confirmation help: BUAP Confirmation help: ALRM Confirmation help	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable. LCD backlight should be on. LCD backlight should be on. The backlight must be turned off after 10 seconds. Ability to select and set the time from 0 to 255 seconds before turning off the backlight. Forcing the backlight. Forcing the backlight. Forcing the backlight. Forcing the backlight. Buzzer should output a single tone. Ability to set the key operation sound ON/OFF. Buzzer to sound every 1 minute. Ability to set the operation of the confirmation beep. Flashing LED every 1 minute. Ability to set lunch break on/off. To be able to take over the previous PEAK and TWA values at starup (resume function). The user should be able to choose whether or not to perform a resume. Automatically execute resume if the user does not perform any operation. To record the data (PEAK value, TWA value and accumulated value) necessary for resume when the power is turned off. Ability to register a list of use	
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req[6]	Equipment adjustment	req[6 - 1] req[6 - 2] req[6 - 3] req[6 - 4]	Key operation sound Confirmation beep Lunch Break	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press any kew Measurement mode Backlight OFF time: 10 seconds No operation Setting via communication Confirmation to SDM User mode Press any button Setting via communication Confirmation interval: 1 minute Measurement mode Display mode No alarm Setting via communication Confirmation interval: 1 minute Display mode Neasurement mode Setting via communication Confirmation interval: 1 minute Display mode Neasurement mode Larm has been issued Setting via communication Confirmation interval: 1 minute Display mode Neasurement mode Alarm has been issued Setting via communication Confirmation teley: 1 minute Measurement mode Alarm has been issued Setting via communication Confirmation seey: ALARM Confirmation teley: 1 minute Measurement mode Alarm has been issued Setting via communication Confirmation seey: ALARM Confirmation teley: ALARM Confirmation teley: 1 minute Measurement mode Alarm has been issued Setting via communication Turn off the power and start again. Unch break ON After gas measurement in measurement mode, turn off the power and start again. Unch break ON After gas measurement in measurement in Reasurement mode. Setting via communication Confirmation tele agat measurement in Reasurement in Re	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable. LCD backlight should be on. LCD backlight should be on. LCD backlight should be on. The backlight to turn on. The buzzer should output a single tone. Ability to set the key operation sound ON/OFF. Buzzer to sound every 1 minute. Buzzer to sound every 1 minute. Ability to set the operation of the confirmation beep. Flashing LED every 1 minute. Flashing LED every 1 minute. Ability to set the break on/off. To be able to take over the previous PEAK and TWA values at startup (resume function). The user should be able to choose whether or not to perform a resume. Automatically execute resume if the user does not perform any operation. To record the data (PEAK value, TWA value and accumulated value) necessary for resume when the power is turned off. Ability to setter the ID to be used from a list of user IDs/station IDs. Ability to select an ID list.	
req[6]	Equipment adjustment	req[6 - 1] req[6 - 2] req[6 - 3] req[6 - 4] req[6 - 6]	Key operation sound Confirmation beep Lunch Break User ID/Station ID Default processing	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press any kew Measurement mode Backlight OFF time: 10 seconds No operation Setting via communication Connect to SDM User mode Press any button Setting via communication Confirmation beep: BUZZER Confirmation beep: BUZZER Confirmation interval: 1 minute Measurement mode Display mode Confirmation beep: BUZZER Confirmation interval: 1 minute Display mode Setting via communication Confirmation beep: SUZZER Confirmation interval: 1 minute Display mode Setting via communication Confirmation beep: BUZER Confirmation interval: 1 minute Display mode No alarm Setting via communication Confirmation beep: ALARM Confirmation beep: ALARM Confirmation beep: ALARM Confirmation terval: 1 minute Measurement mode Alarm has heen issued Setting via communication Lunch break ON After gas measurement in measurement mode, turn off the power and start again. Lunch break ON After gas measurement in measurement mode, turn off the power and start again. Cunch break ON After gas measurement in measurement mode, turn off the power and start again. Setting via communication Extension Current mode Setting via communication Read data after execution via communication Read data after execution via communication Read data after execution via communication	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable. LCD backlight should be on. LCD backlight should be on. LCD backlight should be on. The backlight must be turned off after 10 seconds. Ability to select and set the time from 0 to 255 seconds before turning off the backlight. Forcing the backlight to turn on. The buzzer should output a single tone. Ability to set the key operation sound ON/OFF. Buzzer to sound every 1 minute. Buzzer to sound every 1 minute. Flashing LED every 1 minute. Flashing LED every 1 minute. Flashing LED every 1 minute. Ability to set lunch break on/off. To be able to take over the previous PEAK and TWA values at startup (resume function). The user should be able to choose whether or not to perform a resume. Automatically execute resume if the user does not perform any operation. To record the data (PEAK value, TWA value and accumulated value) necessary for resume when the power is turned off. Ability to select the 1D to use at ID2/station IDs. Ability to select the 1D to be used from a list of user ID2/station IDs. Ability to select the 1D to be use from an list of user ID2/station IDs.	
req[6]	Equipment adjustment	req[6 - 1] req[6 - 2] req[6 - 3] req[6 - 4]	Key operation sound Confirmation beep Lunch Break User ID/Station ID Default processing	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press any kew Measurement mode Backlight OFF time: 10 seconds No operation Setting via communication Confirmation to SDM User mode Press any buton Setting via communication Confirmation interval: 1 minute Measurement mode Display mode Orifination interval: 1 minute Display mode Setting via communication Confirmation interval: 1 minute Display mode Setting via communication Confirmation interval: 1 minute Measurement mode Display mode Alarm has heen issued Setting via communication Confirmation interval: 1 minute Measurement mode Display mode Alarm has heen issued Setting via communication Confirmation teley: 1 minute Measurement mode Alarm has heen issued Setting via communication Confirmation selp: ALARM Confirmation teley: 1 minute Measurement mode Alarm has heen issued Setting via communication Confirmation selp: ALARM Confirmation teley: ALARM Confirmation teley: 1 minute Measurement mode Alarm has heen issued Setting via communication Turn off the power and start again. Unch break ON Alter gas measurement in measurement mode, turn off the power and start again. Unch break ON Alter gas measurement in measurement in Reasurement mode. Setting via communication Setting via communication Curl frack oN Alter gas measurement in measurement in Reasurement in Reasurement in Reasurement in Setting via communication Curl frack ON Alter gas measurement in Reasurement in Reasure	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable. LCD backlight should be on. LCD backlight should be on. The backlight must be turned off after 10 seconds. Ability to select and set the time from 0 to 255 seconds before turning off the backlight. Forcing the backlight. Forcing the backlight to turn on. The buzzer should output a single tone. Ability to set the key operation sound ON/OFF. Buzzer to sound every 1 minute. Buzzer to sound every 1 minute. Ability to set the operation ifme of the confirmation beep. Flashing LED every 1 minute. Flashing LED every 1 minute. Ability to set lunch break on/off. To be able to take over the previous PEAK and TWA values at starup (resume function). The user should be able to choose whether or not to perform a resume. Automatically execute resume if the user does not perform any operation. To record the data (PEAK value, TWA value and accumulated value) necessary for resume when the power is turned off. Ability to select the ID to be used from a list of user IDa/	
req[6]	Equipment adjustment	req[6 - 1] req[6 - 2] req[6 - 3] req[6 - 4] req[6 - 6]	Key operation sound Confirmation beep Lunch Break User ID/Station ID Default processing Protection setting for non-	Setting via communication All sensors OFF Initial mode Setting via communication Measurement mode Press any kew Measurement mode Backlight OFF time: 10 seconds No operation Setting via communication Connect to SDM User mode Press any button Setting via communication Confirmation beep: BUZZER Confirmation beep: BUZZER Confirmation interval: 1 minute Measurement mode Display mode Confirmation beep: BUZZER Confirmation interval: 1 minute Display mode Setting via communication Confirmation beep: SUZZER Confirmation interval: 1 minute Display mode Setting via communication Confirmation beep: BUZER Confirmation interval: 1 minute Display mode No alarm Setting via communication Confirmation beep: ALARM Confirmation beep: ALARM Confirmation beep: ALARM Confirmation terval: 1 minute Measurement mode Alarm has heen issued Setting via communication Lunch break ON After gas measurement in measurement mode, turn off the power and start again. Lunch break ON After gas measurement in measurement mode, turn off the power and start again. Cunch break ON After gas measurement in measurement mode, turn off the power and start again. Setting via communication Extension Current mode Setting via communication Read data after execution via communication Read data after execution via communication Read data after execution via communication	Ability to set each sensor ON/OFF. If all sensors are off, an error should occur during initialization. Gas type for each sensor should be selectable. LCD backlight should be on. LCD backlight should be on. If all sensors are off, an error should be selectable. LCD backlight should be on. If all sensors are off, an error should be selectable. LCD backlight should be on. If the backlight must be turned off after 10 seconds. Ability to select and set the time from 0 to 255 seconds before turning off the backlight. Forcing the backlight to turn on. The buzzer should output a single tone. Ability to set the key operation sound ON/OFF. Buzzer to sound every 1 minute. Buzzer to sound every 1 minute. Ability to set the operation of the confirmation beep. Ability to set the operation fime of the confirmation beep. Flashing LED every 1 minute. Flashing LED every 1 minute. If a bability to set lunch break on/off. To be able to take over the previous PEAK and TWA values at starup (resume function). The user should be able to choose whether or not to perform a resume. Automatically execute resume if the user does not perform any operation. Ability to select the Do to be used from a list of user IDs/station IDs. Ability to select an D list. The non-volatile memory shall be initialized and initital values shall be written. <tr< td=""><td></td></tr<>	

			req[6	-	8]	Password security	User mode password ON	A password request is made and the user must be able to enter a 4-
							User mode password ON	
 							User mode password ON	When [0000] is entered, a password mismatch is displayed and the
							User mode transition	
							User mode password:1234	
							User mode transition Setting via communication	
							Maintenance mode password ON	A password request is made and the user must be able to enter a 4-
							Maintenance Mode Password ON	
							Maintenance Mode Password ON	
								······································
							Setting via communication	
 								
 							Setting via communication	
 							Gas Select Transition	
							Gas Select Transition	
 							Factory mode transition	
			1				Factory mode transition	
Provide in the stand of the stand			real C		۵ ı	Password protection	Password protection ON	A password is required to prevent non-administrators from running
			red[0	-	a 1		Power OFF transition	the program, and a 4-digit password can be entered.
			1				Measurement mode	
			1					
Note: Note: Sale: Note: Note:< Note:< <td></td> <td></td> <th>1</th> <td></td> <td></td> <td></td> <td>Measurement mode</td> <td></td>			1				Measurement mode	
Processe			real 6		10 1	Factory reset (Factory setting)	Maintenance mode	Data in non-volatile memory must be able to be restored to factory-
 								
Part Books Part Bo			1					
Part of set operation Number of set operation Numer of set operation Numer of set oper			1					at the factory.
Process Process <t< td=""><td></td><td></td><th></th><td></td><td></td><td></td><td></td><td></td></t<>								
Number Numath Numath Numath							Factory Mode	A confirmation message should be displayed to the user before
Image: Provide a construction of the second of th								recording.
Number Number Proof of statistics Proof statistics Proof statistics Proof statistics Proof statistics Proof statistics res Normal communication Normal statistics Normal statistis Normal statistis Normal stat								The data in the non-volatile memory must match the current data.
Image: Program (Program (req[6		11]	Power supply processing	Power off state	Power supply should be activated.
							Press and hold the POWER key for 1 second. Power ON state	
Nome Nome <th< td=""><td>rea[7]</td><td>External communication</td><th></th><td></td><td></td><td>Communication</td><td>Press and hold the POWER kev for 3 seconds.</td><td></td></th<>	rea[7]	External communication				Communication	Press and hold the POWER kev for 3 seconds.	
Note Note <t< td=""><td>104[7]</td><td>External communication</td><th>req[7</th><td>-</td><td>1]</td><td>Communication</td><td>Execute communication from PC.</td><td></td></t<>	104[7]	External communication	req[7	-	1]	Communication	Execute communication from PC.	
Number Numer Numer Numer <td></td> <td></td> <th></th> <td></td> <td></td> <td></td> <td>Execute communication from PC.</td> <td></td>							Execute communication from PC.	
							Read after setting via communication	
Note Note <t< td=""><td></td><td></td><th></th><td></td><td></td><td></td><td>Read after setting via communication</td><td>The temporary serial number of the device must be able to be entered</td></t<>							Read after setting via communication	The temporary serial number of the device must be able to be entered
Note and particular in the second of the second o								and road from a PC
Image: Provide in the second							Read after setting via communication	The SPE number of the main unit must be able to be entered and
Image: Market Big Image: Big							-	The SPE number of the main unit must be able to be entered and read from a PC.
energies Data logger energies Solution Power ON							Setting via communication Setting via communication	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a
							Setting via communication Setting via communication Acquired via communication	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a Ability to read out logger data from a PC.
reg 8 - 2 0 </td <td>req[8]</td> <td>Data logger</td> <th>req[8</th> <td>-</td> <td>1]</td> <td>Data logging</td> <td>Setting via communication Setting via communication Acquired via communication Setting via communication Power ON</td> <td>The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a Ability to read out logger data from a PC. Ability to change logger settings from a PC.</td>	req[8]	Data logger	req[8	-	1]	Data logging	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a Ability to read out logger data from a PC. Ability to change logger settings from a PC.
Reg Image: Simple set of the set of t	req[8]	Data logger	req[8	-	1]	Data logging	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval tred interval: 5 minutes	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a Ability to read out logger data from a PC. Ability to change logger settings from a PC. Power ON. 3600 interval trends are recorded. Recording of concentration data
reg Mode select integrate the set of the second s	req[8]	Data logger	req[8	-	1]	Data logging	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval trend interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a Ability to charge out logger data from a PC. Ability to change logger settings from a PC. Power ON. 3600 interval trends are recorded. Recording of concentration data and gas data at each set time.
reg 8 - 5 interval tred tred time Causing a total of 100 failures 100 failures events will be recorded. Accorded using the surface- will update method. 00 reg 8 - 2 1 Clear log Read data after executing power supply logged data Operation history are recorded. Update method. 00 reg 8 - 2 1 Clear log Read data after executing power supply logged data Clearing to output the mode of the sufficience of the suffi	req[8]	Data logger	req[8	-	1]	Data logging	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval trend interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a Ability to call out logger data from a PC. Ability to change logger settings from a PC. Power ON. 3600 interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals
reg s 5 Interval trend interval Section Section Clearing according blacks and according blacks	req[8]	Data logger	req[8	-	1]	Data logging	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval trend interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode Gas alarm is triogered 8 times every 30 minutes	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a Ability to change logger settings from a PC. Power ON. 3600 interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and after the time of occurrence. 100 alarm events will be recorded. Recorded using the surface-
req[8] Mode select req[9] No Selection Selection Selection All selection <td>req[8]</td> <td>Data logger</td> <th>req[8</th> <td>-</td> <td>1]</td> <td>Data logging</td> <td>Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval tred interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode Gas alarm is triogered 8 times every 30 minutes Generate gas alarm 100 times in measurement mode.</td> <td>The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKJ, and EN destinations from a Ability to change logger settings from a PC. Ability to change logger settings from a PC. Power ON. 3600 Interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and after the time of occurrence. 100 alarm events will be recorded. Recorded using the surface-switching update method.</td>	req[8]	Data logger	req[8	-	1]	Data logging	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval tred interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode Gas alarm is triogered 8 times every 30 minutes Generate gas alarm 100 times in measurement mode.	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKJ, and EN destinations from a Ability to change logger settings from a PC. Ability to change logger settings from a PC. Power ON. 3600 Interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and after the time of occurrence. 100 alarm events will be recorded. Recorded using the surface-switching update method.
req[8] Node select Interval tred time Selection Clearing books, using the sumday withing dpalm method. req[9] Mode select Run the BUMP test. One calibration history was commonial. A history of 100 setting dpalm method. req[9] Mode select req[9] - 2 Impact the sum of the su	req[8]	Data logger	req[8	-	1]	Data logging	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval tred interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode Gas alarm is triogered 8 times every 30 minutes Generate gas alarm 100 times in measurement mode.	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKI, and EN destinations from a Ability to read out logger data from a PC. Ability to change logger settings from a PC. Power ON. 3600 interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and alter the time of occurrence. 100 alarm events will be recorded. Recording using the surface-switching update method.
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reg 8 - 3 Detailed fault Information Log Cenerate an arbitrary fault Clearing the power log from flash memory. Image: Compute and the power log from flash memory. <th< td=""><td>req[8]</td><td>Data logger</td><th>req[8</th><td>-</td><td>1]</td><td>Data logging</td><td>Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval trend interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode Gas alarm is triocered 8 times every 30 minutes Generate gas alarm 100 times in measurement mode. Causing a total of 100 failures Execute auto-calibration a total of 100 times. Run the BUMP test. Execute setting changes a total of 100 times.</td><td>The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKJ, and EN destinations from a Ability to change logger settings from a PC. Power ON. S000 Interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and after the time of occurrence. 100 alarm events will be recorded. Recorded using the surface-switching update method. 100 failure events will be recorded. Confirmation events including BUMPs, using the surface-switching update method. 100 calibration history are common) A history of 100 setting changes will be recorded. Only the values that are valid for tracking are recorded. Only the values that are valid for tracking are recorded. The recorded. Only the values that are valid for tracking are recorded. The recorded concentration that pulses that are valid for tracking are recorded. The recorded concentration that and gas data method.</td></th<>	req[8]	Data logger	req[8	-	1]	Data logging	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval trend interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode Gas alarm is triocered 8 times every 30 minutes Generate gas alarm 100 times in measurement mode. Causing a total of 100 failures Execute auto-calibration a total of 100 times. Run the BUMP test. Execute setting changes a total of 100 times.	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up domestic, export, RKJ, and EN destinations from a Ability to change logger settings from a PC. Power ON. S000 Interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and after the time of occurrence. 100 alarm events will be recorded. Recorded using the surface-switching update method. 100 failure events will be recorded. Confirmation events including BUMPs, using the surface-switching update method. 100 calibration history are common) A history of 100 setting changes will be recorded. Only the values that are valid for tracking are recorded. Only the values that are valid for tracking are recorded. The recorded. Only the values that are valid for tracking are recorded. The recorded concentration that pulses that are valid for tracking are recorded. The recorded concentration that and gas data method.
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			req[8 req[8 req[8 req[8 req[8 req[9 req[9 req[9	-	2] 3] 4] 5] 6] 7] 1] 2] 3]	Clear log Detailed fault Information Log Logger overwrite Interval trend time USER, ID record STATION ID record Display mode User mode User mode	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval trend interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode for 18000 minutes with no alarm Measurement mode Gas alarm is triogered 8 times every 30 minutes Generate gas alarm 100 times in measurement mode. Causing a total of 100 failures Execute auto-calibration a total of 100 times. Run the BUMP test. Execute setting changes a total of 100 times. Execute setting changes a total of 100 times. Read data after executing logger data clear via communication Read data after executing power supply logger data clear via communication. Generate an arbitrary fault Logger overwrite ON Interval trend interval: 5 minutes Logger overwrite ON Interval trend interval: 5 minutes Left in measurement mode for 20000 minutes with no alarm Setting via communication Se	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to change logger settings from a PC. Power ON. S600 interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and after the time of accurrence. 100 alarm events will be recorded. Recorded using the surface-switching update method. 100 failure events will be recorded. Recorded using the surface-switching update method. 100 calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. The recorded concentration data and date can be viewed in display mode. Clearing logger data other than power log from flash memory. Clearing the power log from flash memory. Logging of failure details in case of failure. Interval trend data must be overwritten and recorded from the beginning. If the capacity is full after one interval of power-on, the logger shall stop recording. Ability to set interval trend time. Record the 16-digit station ID. To be able to switch to the mode to measure and display the concentration. Selectable display mode. Transition to measurement mode that is open to the public
			req[8 req[8 req[8 req[8 req[8 req[9 req[9 req[9	-	2] 3] 4] 5] 6] 7 1] 2] 3] 4]	Clear log Detailed fault Information Log Logger overwrite Interval trend time USER_ID record STATION ID record Display mode User mode User mode Maintenance mode	Setting via communication Setting via communication Acquired via communication Setting via communication Power ON Interval trend interval: 5 minutes Left in measurement mode for 18000 minutes with no alarm Measurement mode Gas alarm is trioaered 8 times every 30 minutes Generate gas alarm 100 times in measurement mode. Causing a total of 100 failures Execute auto-calibration a total of 100 times. Run the BUMP test. Execute setting changes a total of 100 times. Read data after executing logger data clear via communication Read data after executing logger data clear via communication. Generate an arbitrary fault Logger overwrite ON Interval trend interval: 5 minutes Restart detector after 9000 minutes of no alarm in measurement mode Left in no-alarm state in measurement mode for 12000 minutes Logger overwrite ON Interval trend interval: 5 minutes Lefting via communication Setting via communication Setting via communication Setting via communication Setting via communication Display mode Press and hold the Alt+ENTER key. Display mode No operation for 20 seconds <td>The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to change logger settings from a PC. Power ON. S600 interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and after the time of accurrence. 100 alarm events will be recorded. Recorded using the surface-switching update method. 100 failure events will be recorded. Recorded using the surface-switching update method. 100 calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. The recorded concentration data and date can be viewed in display mode. Clearing logger data other than power log from flash memory. Clearing the power log from flash memory. Logging of failure details in case of failure. Interval trend data must be overwritten and recorded from the beginning. If the capacity is full after one interval of power-on, the logger shall stop recording. Ability to set interval trend time. Record the 16-digit station ID. To be able to switch to the mode to measure and display the concentration. Selectable display mode. Transition to measurement mode. The ability to select user mode to publish up to one user.</td>	The SPE number of the main unit must be able to be entered and read from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to set up a list of user IDs/station IDs from a PC. Ability to change logger settings from a PC. Power ON. S600 interval trends are recorded. Recording of concentration data and gas data at each set time. Eight alarm trends are recorded. To be recorded at 5-second intervals for 30 minutes before and after the time of accurrence. 100 alarm events will be recorded. Recorded using the surface-switching update method. 100 failure events will be recorded. Recorded using the surface-switching update method. 100 calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. Confirmation that BUMP and calibration history will be recorded. The recorded concentration data and date can be viewed in display mode. Clearing logger data other than power log from flash memory. Clearing the power log from flash memory. Logging of failure details in case of failure. Interval trend data must be overwritten and recorded from the beginning. If the capacity is full after one interval of power-on, the logger shall stop recording. Ability to set interval trend time. Record the 16-digit station ID. To be able to switch to the mode to measure and display the concentration. Selectable display mode. Transition to measurement mode. The ability to select user mode to publish up to one user.

req[9 - 6]	Factory mode	Power off state Press AIR+ENTER key for 7 seconds	Ability to select the factory mode to be used during manufacturing.
ieq[5 - 0]		Enter the password for factory mode	Ability to select the factory mode to be used during manufacturing.
req[9 - 7]	Communication mode	Initial mode Communication starts from PC during date display	Must be able to transition to communication mode.
		Initial Mode Simultaneously press AIR+ENTER key during date	Must be able to transition to communication mode.
		display Power OFF state Place a magnet near the Hall IC	Must be able to shift to power ON and transition to communication mode.
		Power OFF state Place a magnet near the Hall IC Leave for 10 seconds after startup	If no communication partner is found within 10 seconds, turn off the power.
		Power OFF state Place a magnet near the Hall IC After startup, establish communication connection with PC.	The power must remain ON.
req[9 - 8]	Initial mode	Power ON	Moves to initial mode at startup and transitions to measurement mode after a certain period of time.

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		req[9 - 9] Mode transition	User mode Select Initial Start	Transition to initial mode.
				Maintenance Mode	Transition to initial mode.
				Select Initial Start Gas Select	Transition to initial an edu
				Select Initial Start Factory mode	Transition to initial mode.
				Select initial start	Transition to initial mode.
				Initial mode Communication mode transition conditions are met.	Transition to communication mode.
				Initial mode	Transition to measurement mode.
				Abbrox. 40 seconds elabsed Measurement mode	
				Press ENTER key Display mode	Transition to display mode.
				Measurement mode transition conditions are met	Transition to measurement mode.
req[10]	Device information messages	req[10 - 1] Connected device visual confirmation	initial mode	All LCD cells should light up during initialization to confirm that the LCD is working properly.
				initial mode	All LEDs should light up during the initialization, and it should be
				initial mode	possible to confirm that the LEDs are working properly. The vibration motor must be able to operate during initialization to
					confirm that the operation is normal. The backlight should light up during initialization to confirm that the
				initial mode	operation is normal.
				initial mode	A buzzer shall operate during initialization to confirm that the operation is normal.
		req[10 - 2] Measured gas specification information	initial mode	The gas name and unit of the gas to be measured shall be indicated during initialization.
				initial mode	Display the full scale of the gas to be measured during the initial.
				initial mode	The initials shall indicate the operating specifications of latching or automatic recovery.
				la Malakasa da	To automatically display the settings of each alarm point of the
				initial mode	measuring gas in the order of 1st, 2nd, 3rd, STEL and TWA(AVRG) in the initial.
				Display mode	To display the setting of each alarm point (1st, 2nd, 3rd, STEL and
			Date and time information	Press the AIR key in the alarm point display screen.	TWA(AVRG)). Date and time (year, month, day, hour, minute) must be displayed in
		req[10 - 3	1	initial mode	initials.
1		1		Measurement mode	Time (hours, minutes) shall be displayed during measurement.
1		1		Display mode Date and time display screen	Date and time display.
		rog[1 Pottony information	Setting via communication	Ability to change the date and time.
1		req[10 - 4] Battery information	initial mode Power ON state	Battery voltage display during initialization. Display an icon indicating the remaining battery capacity.
1		req[10 - 5] ROM/SUM value information	User mode	ROM number must be verifiable.
1		1		ROMSUM display screen User mode	The ROM number should be displayed in five digits.
1		1		ROMSUM display screen Power ON	To calculate the SUM value of the ROM area.
1		1		User mode	To calculate the SUM value of the ROM area.
				During ROMSUM display screen transition User mode	
				ROMSUM display screen User mode	Must be able to check SUM values.
				ROMSUM display screen	SUM value should be displayed in 4 digits (HEX).
				User mode ROMSUM display screen	During SUM value calculation, "" should be displayed.
				User mode	Version number should be displayed.
				ROMSUM display screen User mode	Version number should be displayed in five digits.
			1 ID information	ROMSUM display screen ID display ON	
		req[10 - 6		Initial mode	To display the user ID set during initialization.
				ID display ON Initial mode	Display the station ID that is set during initialization.
				ID display OFF	Do not display the user ID/station ID.
				Initial mode Setting via communication	ID information display should be able to be set ON/OFF.
		req[10 - 7	A/D value information	Factory mode AD value display screen	All A/D values must be visible in factory mode.
req[11]	Requests from Sales	rog[11 1	Temperature display		Te diaplay temperature in diaplay mode
		req[11 - 1	1	Display modeDate and time temperature display screen	To display temperature in display mode.
				Measurement mode 20 minutes at 55°C environment	To issue an out-of-operating-temperature-range warning.
				Measurement mode -25°C environment for 20 minutes	To issue an out-of-operating-temperature-range warning.
				Measurement mode	
				5 minutes elapsed under 25°C environment while warning out of operating temperature range is issued	Out of operating temperature range warning should be reset.
				Measurement mode	In addition to the out-of-operating-temperature-range warning, a
				20 minutes in 55°C environment while warning out of operating temperature range is issued	buzzer shall sound every 5 seconds.
		req[11 - 2	Energy saving mode	Setting via communication	The ability to select an energy-saving mode that doubles the OFF time for intermittent measurement of combustible gases and extends
					the continuous use time.
1		1		Power OFF	Energy saving mode setting ON/OFF shall be retained even when the
1	1				power is turned off.
1				Measurement mode Energy saving mode ON	power is turned off. Display that the energy saving mode setting is ON during
				Energy saving mode ON Measurement mode	power is turned off.
				Energy saving mode ON Measurement mode Energy saving mode ON	power is turned off. Display that the energy saving mode setting is ON during
				Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode	power is turned off. Display that the energy saving mode setting is ON during Energy saving mode should work.
				Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON	power is turned off. Display that the energy saving mode setting is ON during Display that the energy saving mode should work. Energy saving mode should work. Energy saving mode should not work. The ability to set whether the energy saving mode setting is displayed
			Sensor life diagnosis	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode	power is turned off.
		req[11 - 3] Sensor life diagnosis	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration	power is turned off.
		req[11 - 3] Sensor life diagnosis	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Margin value display ON Successful auto-calibration	power is turned off.
			Staalijk Maria	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Successful auto-calibration Setting via communication	power is turned off. Display that the energy saving mode setting is ON during Energy saving mode should work. Energy saving mode should work. Energy saving mode should not work. Energy saving mode should not work. The ability to set whether the energy saving mode setting is displayed in display mode. At the end of calibration, the margin value of the sensor shall be displayed. The concentration value at the time of calibration, and the concentration at the sensor output MAX. Ability to set.
		req[11 - 3 req[11 - 4	Staalijk Maria	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode User mode Setting via communication Setting via communication Margin value display ON Successful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication	power is turned off.
			Staalijk Maria	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Successful auto-calibration Setting via communication	power is turned off.
			Staalijk Maria	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Stealth mode ON Stealth mode ON	power is turned off.
			Staalijk Maria	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Stealth mode ON Power ON Stealth mode ON	power is turned off. Display that the energy saving mode setting is ON during Energy saving mode should work. Energy saving mode should work. The ability to set whether the energy saving mode setting is displayed in display mode. At the end of calibration, the margin value of the sensor shall be displayed. The concentration value at the time of calibration, and the concentration at the sensor output MAX. Ability to set the margin value display ON/OFF. Steath mode without buzzer, LED, vibration motor, and backlight can be selected and set. Ability to set the vibration motor, and backlight should not operate.
			Staalijk Maria	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Savesses and the save of the save Setting via communication Margin value display ON Successful auto-calibration Setting via communication Setting via communication Stealth mode ON Stealth motor ON Power ON	power is turned off.
] Stealth Mode	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Setting via communication Setting via communication Stealth mode ON Stealth mode ON Stealth mode ON Stealth mode ON Stealth mode ON Stealth mode ON Stealth mode ON	power is turned off.
		req[11 - 4] Stealth Mode	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auch-calibration Margin value display ON Successful auch-calibration Setting via communication Setting via communication Setting via communication Steatin mode ON Steatih communication	power is turned off.
		req[11 - 4] Stealth Mode	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode User mode Setting via communication Margin value display ON Successful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Steath mode ON Steath motor ON Power ON Steath motor OFF Power ON Steating via communication Steating via communication Steating via communication Steating via communication Steath motor ON Steath motor OFF Power ON Steating via communication Display mode Combustible replacement gas selection screen	power is turned off.
		req[11 - 4] Stealth Mode	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auch-calibration Margin value display ON Successful auch-calibration Setting via communication Setting via communication Setting via communication Steatin mode ON Steatih communication	power is turned off.
		req[11 - 4] Stealth Mode	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful audo-calibration Margin value display ON Successful audo-calibration Setting via communication Setting via communication Setting via communication Steatin mode ON Steatih mode ON	power is turned off.
		req[11 - 4] Stealth Mode] Combustible gas species conversion	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Successful auto-calibration Successful auto-calibration Setting via communication Setting via communication Setting via communication Steatin mode ON Steatih mode ON Steatin mode ON Steatin mode ON Steatin mode ON Steatin guia communication Display mode Combustible replacement gas :i-C4H10 Measurement mode	power is turned off.
		req[11 - 4 req[11 - 5	1 Stealth Mode 1 Combustible gas species conversion 1 Combustible gas LEL value switching 2 Combustible gas LEL value switching	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Steatih mode ON Steatih mode ON Steating via communication Display mode Combustible replacement gas: i-C4H10 Measurement mode Confirm setting value after power off/on Setting via communication Setting via communication Setting via communication ON	power is turned off. Display that the energy saving mode setting is ON during Energy saving mode should work. Energy saving mode should work. The ability to set whether the energy saving mode setting is displayed in display mode. At the end of calibration, the margin value of the sensor shall be displayed. The concentration value at the time of calibration, and the concentration value display ON/OFF. Stealth mode without buzzer, LED, vibration motor, and backlight can be selected and set. Ability to set the vibration motor, and backlight should not operate. The buzzer, LED, vibration motor, and backlight should not operate. The buzzer, LED, and backlight should not operate, and only the vibration motor should operate. Combustible gas species must be able to be read by calibration of the calibration as only. While reading, the name of the gas to be read shall be displayed. The read-only setting shall be retained even when the power is turned off. Ability to set STD/ISO/IEC.
		req[11 - 4	1 Stealth Mode 1 Combustible gas species conversion 1 Combustible gas LEL value switching 2 Combustible gas LEL value switching	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Savcessful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Stealth mode ON Stealth Mode ON Stealt	power is turned off.
		req[11 - 4 req[11 - 5	1 Stealth Mode 1 Combustible gas species conversion 1 Combustible gas LEL value switching 2 Combustible gas LEL value switching	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Savcessful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Setting via communication Stealth mode ON Stealth mode CN Stealth Stealth Stea	Dower is turned off. Display that the energy saving mode setting is ON during Energy saving mode should work. Energy saving mode should not work. The ability to set whether the energy saving mode setting is displayed in display mode. At the end of abibration, the margin value of the sensor shall be displayed. The concentration value at the time of calibration, and the concentration value at the time of calibration, and the concentration at the sensor output MAX. Ability to set the margin value display ON/OFF. Steath mode without buzzer, LED, vibration motor, and backlight can be selected and set. Ability to set the vibration motor, and backlight should not operate. The buzzer, LED, on backlight should not operate, and only the vibration motor should operate. Combustible gas species must be able to be read by calibration of the calibration as only. Multe teading, the name of the gas to be read shall be displayed. The read-only setting shall be retained even when the power is turned off. Ability to set STD/ISO/IEC. Be able to check the record of calibration date and time.
		req[11 - 4 req[11 - 5	1 Stealth Mode 1 Combustible gas species conversion 1 Combustible gas LEL value switching 2 Combustible gas LEL value switching	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Steatith mode ON Steatith motor ON Steatith motor ON Steatith motor ON Steatith motor OF Power ON Steatith motor OF Power ON Setting via communication Display mode Combustible replacement gas selection screen Combustible replacement gas : i-C4H10 Measurement mode Confirm setting value after power oft/on Setting via communication Calibration deadline function ON Display mode Calibration deadline function ON	power is turned off. Display that the energy saving mode setting is ON during Energy saving mode should work. Energy saving mode should work. The ability to set whether the energy saving mode setting is displayed in display mode. At the end of calibration, the margin value of the sensor shall be displayed. The concentration value at the time of calibration, and the concentration value display ON/OFF. Stealth mode without buzzer, LED, vibration motor, and backlight can be selected and set. Ability to set the vibration motor, and backlight should not operate. The buzzer, LED, vibration motor, and backlight should not operate. The buzzer, LED, and backlight should not operate, and only the vibration motor should operate. Combustible gas species must be able to be read by calibration of the calibration as only. While reading, the name of the gas to be read shall be displayed. The read-only setting shall be retained even when the power is turned off. Ability to set STD/ISO/IEC.
		req[11 - 4 req[11 - 5	1 Stealth Mode 1 Combustible gas species conversion 1 Combustible gas LEL value switching 2 Calibration record display BUMP record display	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Setting via communication Margin value display ON Successful auto-calibration Setting via communication Steath motor ON Power ON Steath motor OFF Power ON Setting via communication Combustible replacement gas selection screen Combustible replacement gas selection screen Combustible replacement gas selection Calibration decoling Setting via communication Setting via communication Display mode Calibration record display screen Calibration record display screen Calibration decoling User N Supplay mode Display mode Supplay Suppl	Dower is turned off. Display that the energy saving mode setting is ON during Energy saving mode should work. Energy saving mode should not work. The ability to set whether the energy saving mode setting is displayed in display mode. At the end of abibration, the margin value of the sensor shall be displayed. The concentration value at the time of calibration, and the concentration value at the time of calibration, and the concentration at the sensor output MAX. Ability to set the margin value display ON/OFF. Steath mode without buzzer, LED, vibration motor, and backlight can be selected and set. Ability to set the vibration motor, and backlight should not operate. The buzzer, LED, on backlight should not operate, and only the vibration motor should operate. Combustible gas species must be able to be read by calibration of the calibration as only. Multe teading, the name of the gas to be read shall be displayed. The read-only setting shall be retained even when the power is turned off. Ability to set STD/ISO/IEC. Be able to check the record of calibration date and time.
		req[11 - 4 req[11 - 5 req[11 - 6 req[11 - 7	1 Stealth Mode 1 Combustible gas species conversion 1 Combustible gas LEL value switching 2 Calibration record display BUMP record display	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Setting via communication Margin value display ON Successful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Steath motor ON Power ON Steath motor OFF Power ON Setting via communication Display mode Combustible replacement gas selection screen Combustible replacement gas :-C4H10 Measurement mode Confirm setting value after power off/on Setting via communication Setting via communication Display mode Calibration record display screen BUMP deadline function OFF Display mode BUMP record display screen BUMP deadline function OFF	power is turned off.
		req[11 - 4 req[11 - 5 req[11 - 6 req[11 - 7	1 Stealth Mode 1 Combustible gas species conversion 1 Combustible gas LEL value switching 2 Calibration record display 1 BUMP record display	Energy saving mode ON Measurement mode Energy saving mode ON Display mode User mode Energy saving mode ON Setting via communication Margin value display ON Successful auto-calibration Margin value display ON Successful auto-calibration Setting via communication Setting via communication Setting via communication Stealth mode ON Stealth Stealth Stealth Stealth Stealth Stealth Stea	power is turned off.

ŗ	l	1	I		User mode	T he dama states in the descent of the states of the stat
					Alarm point setting screen User mode	The alarm point can be reset by the alarm point reset function.
					After resetting the alarm in the alarm point setting screen, read	The alarm point for the alarm point reset function and the current alarm point must match.
					User mode Alarm point setting screen	Ability to reset alarm points by user.
req[12]	Engineering request	req[12 - 1	1]	Gas test	Maintenance Mode Gas test screen	Must be able to confirm that the gas is flowing and setting off the alarm.
					Maintenance Mode Gas test screen	The alarm buzzer is so loud that it does not sound when the alarm is triggered.
		req[12 - 2		Date of sensor/pump/battery	Maintenance mode	The date and time of sensor replacement cannot be attached to the
			1	replacement	Replacement date and time record screen Maintenance mode	main unit, so it must be recorded in the main unit. Since the date and time of pump replacement cannot be attached to
					Replacement date and time record screen Maintenance mode	the main unit, it must be recorded in the main unit. Since the date and time of battery replacement cannot be attached to
					Replacement date and time record screen Maintenance mode	the main unit, it must be recorded in the main unit.
					Replacement date and time record screen Maintenance mode	Record the current date and time when the record is executed.
					Replacement date and time record screen Maintenance mode	Date and time should be able to be recorded for each sensor. The date and time of replacement must be available on the product
-[40]			4 1	10 t	Replacement date display screen	itself.
q[13]	Microcomputer	req[13 - 1		ROM	Power ON Calculate the SUM value from the created mot file and	Be consistent with the IO map.
		req[13 - 2	2]		set it as the pre-calculated SUM value.	No ROM failure after startup.
					Create a mot file with different ROM numbers and calculate the SUM value.	Even if the ROM number in the program is changed, the SUM value should not change.
				RAM		Check the RAM area used after the power is turned on and every 24 hours.
		req[13 - 3	3]		Check RAM after power on and every 24 hours	(MainMCU:0x0000E900~0x0000E907,0x00000004~0x00006000,0x0
						000EB00~0x0000FFFF,SensorMCU:0x000FE700~0x000FE705,0x00 0FF780~0x000FFF00)
						Write 0x55 and 0xAA to the used RAM area and check in bit units. (MainMCU:0x0000E900~0x0000E907,0x00000004~0x00006000,0x0
					Check RAM memory when checking RAM	000EB00~0x0000FFFF,SensorMCU:0x000FE700~0x000FE705,0x00
					bit error occurred	0FE780~0x000FFE00) Show special status
					All bits are normal Turn on the power and shift to the measurement mode	Do not Show special status
		real 12	4 1	Timer		Finish the check before transitioning to measurement mode LCD is updated every 250msec (Confirmation of normal operation of
		req[13 - 4	+]	5144	Checking the screen	timer).
		req[13 - 5	5]	PWM	Arbitrary buzzer sound generation	A buzzer sound should be generated (confirming normal PWM operation).
		req[13 - 6	6]	A/D converter	Power ON	The A/D converter must operate at a reference voltage of 2.8V.
					0V input 1.4V input	The AD value should be 0 V. The AD value should be 1.4V.
		ļ		UART	2.8V input	The AD value should be 2.8V.
				UART		The communication settings with the sensor MCU are Baud rate: 38400bps
		req[13 - 7	7]		Power ON	Data length: 8 bits Parity: None
						Stop bit: 1
						The communication settings with the USB module are
					Power ON	Baud rate: 115200bps Data length: 8 bits
						Parity: Even Stop bit: 1
					Connect the sensor MCU and start	Must be able to send and receive data from the sensor MCU.
					Execute communication with PC.	Must be able to send and receive data from the USB module.
				SPI		The communication settings with the non-volatile memory are Baud rate: 3686.4 kbps
		req[13 - 8	8]		Power ON	MSB first
					Read after changing the setting value.	SPI mode 0 Must be able to send and receive data from FRAM.
				12C	Read after writing logger data	Able to send and receive data with serial FLASH.
		req[13 - 9		120	Power ON	The communication settings with LCD/RTC are Baud rate: 400kbps
					Initial mode	MCU side master
					Power ON	Must be able to send and receive data from the RTC. Must be able to send and receive data from LCD.
				WDT	Power ON	The WDT settings are
		req[13 - 1	10]		Power ON	Clock division ratio: IWDTCLK/128 Frequency: 0.117kHz
		-	-			Timeout cycle: 512 Timeout period: 4369.067msec
					Power ON	WDT resets should not occur due to normal use.
				Data processing Setting processing	Power ON Power ON	Must be able to process the data required by each function. Microcontroller settings must be as per the IO map.
		req[13 - 1		MCU power supply voltage monitoring	Lower the power supply voltage of the MCU	Show special status
			-		(MainMCU:2.39V,SensorMCU:2.49V) The power supply voltage of the MCU is normal	Do not Show special status
		req[13 - 1			(MainMCU: 2.80V, SensorMCU:2.80V) Power ON	Voltage of 2.0V should be output from the DAC.
[14]	Microcomputer connection	req[14 - 1	1]	FRAM	Memory read after default default	Must be able to read FRAM. Must be able to write FRAM.
	device					
	device				Check the SUM value of FRAM.	The SUM value of addresses 0x0100 to 0x0AFF must match the
	device				Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (equipment setting value). The SUM value of addresses 0x0B00 to 0x14FF must match the
	device				Check the SUM value of FRAM.	calculated value (equipment setting value). The SUM value of addresses 0x0B00 to 0x14FF must match the calculated value (equipment setting value). The SUM value of addresses 0x4100 to 0x4AFF must match the
	device				Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (equipment setting value). The SUM value of addresses 0x0B00 to 0x14FF must match the calculated value (equipment setting value). The SUM value of addresses 0x4100 to 0x4AFF must match the
	device				Check the SUM value of FRAM. Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (equipment setting value). The SUM value of addresses 0x0800 to 0x14FF must match the calculated value (equipment setting value). The SUM value of addresses 0x4100 to 0x4AFF must match the calculated value (equipment setting value). The SUM values for addresses 0x4800 to 0x54FF must match the calculated values (equipment setting value).
	device				Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (acujument setting value). The SUM value of addresses 0x0800 to 0x14FF must match the calculated value (acujument setting value). The SUM value of addresses 0x4100 to 0x4AFF must match the calculated value (acujument setting value). The SUM values for addresses 0x4500 to 0x54FF must match the calculated values (acujument setting values). The SUM values of addresses 0x1500 to 0x1EFF must match the calculated values (factor default).
	device				Check the SUM value of FRAM. Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (acuioment setting value). The SUM value of addresses 0x0800 to 0x14FF must match the calculated value (acuioment setting value). The SUM value of addresses 0x4100 to 0x4AFF must match the calculated value (acuioment setting value). The SUM values for addresses 0x4500 to 0x34FF must match the calculated values (acuioment setting value). The SUM values for addresses 0x1500 to 0x1EFF must match the calculated values (factor default). The SUM values (factor default).
	device				Check the SUM value of FRAM. Check the SUM value of FRAM. Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (acuimment setting value). The SUM value of addresses 0x4000 to 0x14FF must match the calculated value (acuimment setting value). The SUM value of addresses 0x4100 to 0x4AFF must match the calculated value (acuimment setting value). The SUM values for addresses 0x4500 to 0x34FF must match the calculated values (acuimment setting value). The SUM values for addresses 0x1500 to 0x1EFF must match the calculated values (factor default). The SUM values (factor default). The SUM values of addresses 0x1500 to 0x28FF must match the calculated values (factor default). The SUM values (factor default). The SUM values (factor default).
	device				Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (acuimment setting value). The SUM value of addresses 0x4000 to 0x14FF must match the calculated value (acuimment setting value). The SUM value of addresses 0x400 to 0x4AFF must match the calculated value (acuimment setting value). The SUM values for addresses 0x4000 to 0x54FF must match the calculated values (acuimment setting values). The SUM values fractor defresses 0x1500 to 0x1EFF must match the calculated values (factor default). The SUM values for addresses 0x1500 to 0x28FF must match the calculated values (factor default). The SUM values for addresses 0x5500 to 0x28FF must match the calculated values (factor default). The SUM values (factor default). SUM values (factor default). SU
	device				Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (acujument setting value). The SUM value of addresses 0x0600 to 0x14FF must match the calculated value (acujument setting value). The SUM value of addresses 0x4100 to 0x4AFF must match the calculated value (acujument setting value). The SUM values for addresses 0x4800 to 0x54FF must match the calculated values (acujument setting values). The SUM values for addresses 0x4500 to 0x1EFF must match the calculated values (factor default). The SUM values for addresses 0x5500 to 0x5EFF must match the calculated values (factor default). The SUM values for addresses 0x5500 to 0x5EFF must match the calculated values (factor default). The SUM values for addresses 0x5500 to 0x5EFF must match the calculated values (factor default). The SUM values for addresses 0x5600 to 0x58FF must match the calculated values (factor default). The SUM values for addresses 0x5600 to 0x58FF must match the calculated values (factor default). The SUM values for addresses 0x5600 to 0x38FF must match the calculated values (factor default). The SUM values for addresses 0x5600 to 0x38FF must match the calculated values (factor default).
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	device				Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (acuiument setting value). The SUM value of addresses 0x4000 to 0x14FF must match the calculated value (acuiument setting value). The SUM value of addresses 0x400 to 0x4AFF must match the calculated value (acuiument setting value). The SUM values for addresses 0x400 to 0x4FFF must match the calculated values (factory default). The SUM values for addresses 0x1500 to 0x28FF must match the calculated values (factory default). The SUM values for addresses 0x1600 to 0x28FF must match the calculated values (factory default). The SUM values for addresses 0x1600 to 0x28FF must match the calculated values (factory default). The SUM values for addresses 0x1600 to 0x28FF must match the calculated values (factory default). The SUM values (factory default). The SUM values (factory default). The SUM values (factory default). The SUM value of addresses 0x3400 to 0x34FF must match the calculated value (factory default). The SUM value of addresses 0x3400 to 0x34FF must match the calculated value (factory default). The SUM value of addresses 0x3400 to 0x34FF must match the calculated value (factory default). The SUM value of addresses 0x3400 to 0x34FF must match the calculated value (factory default). The SUM value of addresses 0x3400 to 0x34FF must match the calculated value (factory default). The SUM value of addresses 0x3400 to 0x34FF must match the calculated value (factory for foreset). The SUM value of addresses 0x7400 to 0x34FF must match the calculated value (factory for foreset). The SUM value of addresses 0x7400 to 0x34FF must match the calculated value (factory for foreset). The SUM value of addresses 0x7500 to 0x35FF must match the calculated value (factory for foreset). The SUM value of addresses 0x7500 to 0x75FF must match the calculated value (factory for for free).
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	device	req[14 - ;	2]	FLASH	Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (acuimment setting value). The SUM value of addresses 0x4000 to 0x4FF must match the calculated value (acuimment setting value). The SUM values of addresses 0x4000 to 0x4FF must match the calculated value (acuimment setting value). The SUM values for addresses 0x4800 to 0x54FF must match the calculated values (facture of the setting value). The SUM values for addresses 0x500 to 0x54FF must match the calculated values (facture of the setting value). The SUM values for addresses 0x500 to 0x54FF must match the calculated values (facture of the setting value). The SUM values fractor default). The SUM values (factor default). The SUM value of addresses 0x500 to 0x58FF must match the calculated value (factor default). The SUM value of addresses 0x500 to 0x58FF must match the calculated value (alarm point for reset). The SUM value of addresses 0x500 to 0x58FF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x7FF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x3FF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x3FFF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x3FFF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x3FFF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x3FFF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (alarm point for reset). The SUM value of addresses 0x700 to 0x7FFF m
	device	req[14 - 2			Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (aciumment setting value). The SUM value of addresses 0x4000 to 0x4FF must match the calculated value (aciumment setting value). The SUM value of addresses 0x400 to 0x4FF must match the calculated value (aciumment setting value). The SUM values for addresses 0x400 to 0x4FF must match the calculated values (factor/ default). The SUM values for addresses 0x4500 to 0x54FF must match the calculated values (factor/ default). The SUM values for addresses 0x4500 to 0x54FF must match the calculated values (factor/ default). The SUM values for addresses 0x500 to 0x54FF must match the calculated values (factor/ default). The SUM values for addresses 0x500 to 0x54FF must match the calculated values (factor/ default). The SUM values (factor/ default). The SUM values (factor/ default). The SUM value of addresses 0x500 to 0x54FF must match the calculated value (factor/ default). The SUM value of addresses 0x500 to 0x54FF must match the calculated value (factor/ default). The SUM value of addresses 0x500 to 0x54FF must match the calculated value (factor/ default). The SUM value of addresses 0x500 to 0x54FF must match the calculated value (factor/ default). The SUM value of addresses 0x500 to 0x54FF must match the calculated value (factor/ default). The SUM value of addresses 0x700 to 0x7FF must match the calculated value (factor/ for reset). The SUM value of addresses 0x700 to 0x7FF must match the calculated value (factor/ for reset). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (funch break). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (funch break). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (funch break). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (funch break). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (funch break). The SUM value of addresses 0x700 to 0x7FFF must match the calculated value (funch break). Th
	device				Check the SUM value of FRAM. Check the SUM value of FRAM.	calculated value (actionment setting value). The SUM value of addresses 0x0800 to 0x14FF must match the calculated value (actionment setting value). The SUM values for addresses 0x4100 to 0x4FF must match the calculated value (actionment setting value). The SUM values for addresses 0x4500 to 0x34FF must match the calculated value (actionment setting value). The SUM values for addresses 0x1500 to 0x1EFF must match the calculated values (factor default). The SUM values for addresses 0x1500 to 0x28FF must match the calculated values (factor default). The SUM values of addresses 0x5500 to 0x5EFF must match the calculated values (factor default). The SUM values of addresses 0x500 to 0x36FF must match the calculated values (factor default). The SUM value of addresses 0x500 to 0x36FF must match the calculated values (factor default). The SUM value of addresses 0x500 to 0x36FF must match the calculated values (factor default). The SUM value of addresses 0x500 to 0x36FF must match the calculated value of addresses 0x7400 to 0x36FF must match the calculated value of addresses 0x7400 to 0x36FF must match the calculated value of addresses 0x7400 to 0x36FF must match the calculated value of addresses 0x7400 to 0x36FF must match the calculated value of addresses 0x7400 to 0x36FF must match the calculated value of addresses 0x7400 to 0x36FF must match the calculated value of addresses 0x7600 to 0x36FF must match the calculated value of addresses 0x7600 to 0x36FF must match the calculated value of addresses 0x7600 to 0x36FF must match the calculated value of addresses 0x7600 to 0x36FF must match the calculated value of addresses 0x7700 to 0x37FF must match the calculated value of addresses 0x7700 to 0x37FF must match the calculated value (factor break). The SUM value of addresses 0x7700 to 0x37FF must match the calculated value (factor break). The SUM value of addresses 0x7700 to 0x37FF must match the calculated value functh break). The SUM value of addresses 0x7700 to 0x37FF must match the

	i.				· · · ·
				Communication with PC	Must be able to receive data.
	re	eq[14 - 5]	LCD	Power ON	LCD driver settings must be made as described in HW001.
				Power ON	Ability to create display data.
				Power ON	Display data transmission must be possible.
		req[14 - 6]	LED	Measurement mode	Must be able to turn on/off the lamp.
				Trigger an arbitrary alarm	
		req[14 - 7]	Light	Display mode	Must be able to turn on/off the light.
				Execute the light ON/OFF operation.	Must be able to turn bryon the light.
		req[14 - 8]	Buzzer	Measurement mode	The buzzer sound should change depending on the frequency setting.
				Trigger an arbitrary alarm	
		eq[14 - 9]	Vibration motor	Power ON	ON/OFF operation.
				Power ON	Motor must run temporarily and then stop (motor ON/OFF must be
					controllable).
		req[14 - 10]	Button	Measurement mode	To monitor the ON/OFF status of the key (IO port) every 10 msec.
				Press any key	
	re	reg[14 - 11]	Thermistor	Display mode	Ability to calculate temperature of thermistor output.
			2	Temperature display screen Power ON	
		eq[14 - 12]	Pump		Must be able to turn on pump.
				Measurement mode	Must be able to turn off pump.
				Clog the gas flow passage.	
				Pump off menu ON	
				Display mode Enter pump OFF menu	Must be able to turn off pump.
		req[14 - 13]	Pressure sensor	Factory mode	Ability to obtain sensor output for pressure.
				Pressure sensor output confirmation screen	
		req[14 - 14]	Hall IC	Pressure sensor output commation screen	The power supply is activated and the system transitions to the
				Place a magnet near the Hall IC	communication mode (SDM mode).
				Power ON state	Nothing should happen (ignore the input of the Hall IC while the
				Place a magnet near the Hall IC	power is on).
		req[14 - 15]	NC (combustible) sensor	Factory mode	
				NC sensor output confirmation screen	Ability to obtain sensor output for combustible gases.
		req[14 - 16]	EC (oxygen,toxicity) sensor	Factory mode	Ability to obtain sensor output for oxygen and toxic gases.
I I				EC sensor output confirmation screen	
			Lithium rechargeable battery	Insert the lithium rechargeable battery and turn on the	
		req[14 - 17]		power	Ability to obtain battery voltage of lithium rechargeable batteries.
	re			Initial mode	
				Battery voltage display screen	