Confidential

Number of Revisions 0 8027 No. EK-

Product Proposal

		Created date 13-Oct-20					
Secre	nference tariat ption	Sales M in Japan	lanager Global	Drafting department Sales Engineering Section/Office			
Morisaka	Sugiyama	Matsunaga	Nishimiya	Shionoya	Nishimiya		

	Theme	Suction type 4-component portable detector (successor to GX-2012) Information Rep 302											
	Products Concept	Development of inexpensive suction-type 4-component portable mainly for overseas markets											
	Development Purpose	A Entering New Markets O B New product sales to existing markets: O C Substitutional demand through improvement of existing products O D Competing against competitors E Others E Others E Petrochemicals/Oil and gas/Firefighting, etc. GX-2012 GMI PS-200, etc.											
I Appli	Desired shipping start date	Shipments to begin in October 2021											
Application Department	Competitors Information	• RAE Co Model: Q RAE Ⅲ Sales Price: 43,050 yen • GMI Co Model: PS-200 Sales Price: 48,300 yen • Gas Clip Co Model: Gas Clip Pump Sales Price: 53,040 yen • BW Co Model: BW Max XT Ⅱ Sales Price: 55,200 yen • New Cosmos Co Model: XP-302MR Sales Price: 135,000 yen											
ment	Sales Price	Japan	List price 	Partition limit price		ales Price	Overseas prices are calculated						
		Outside Japan	List price	Partition limit price		ales Price 5_yen	at the rate of USD=105 yen as of October 19, 2020.						
		1st year	2nd year	3rd year 4th		/ear	5th year						
	Sales Target (Units)	6,500	6500	6500	6,5	00	6,500						
	Remarks												

Revision Date	Details	Sales Conference	Planning and Development Committee
Month Day, Year		Month Day, Year	Month Day, Year
Month Day, Tear		adoption•rejection	adoption • rejection
Month Day, Year		Month Day, Year	Month Day, Year
Month Day, Tear		adoption•rejection	adoption•rejection
Month Day Voor		Month Day, Year	Month Day, Year
Month Day, Year		adoption•rejection	adoption•rejection

<u>New Product</u> Request Form Flow Diagram	I Application Department	⇒	Sales Conference Secretariat reception	⇒	II Sales Conference	↑ adopti	III Planning and Development Committee	↑ adopti	Sales Conference Secretariat	弁	Application Department
					1	9	1	9	Storage		Copy

Rejection(Reissue proposalRejection(Reissue proposal

Red	quireme	nt spec	ification]									
	Gas to be detected		O : flammable gas O : O2 O : Others H2S, CO									
	Shape		(If other, provide details in the box below) Portable									
	Detection method		Suction Type (If other, provide details in the box below)									
	Suction flow rate (for suction type)		About 350 ml/min. or more									
			AC V ~ V DC V ~ V									
	Po	wer	Dry battery continuous hours or Rechargeable battery hours or use time more continuous use time more									
	-	rating rature	About −20 °C ~ About 50 °C									
	Oper	ating y range	About 0 %RH ~ 95 %RH									
I	Dimensions		About (W)× (H)× (D)mm or le: or GX-2012 equivalen t or lower									
App	Mass		About g or less or GX-2012 equivalen t or lower									
olication	Functions • Performance		•Rechargeable battery only (No dry cell battery specification) •Drop endurance (minimum target 1m, effort target 2m) •Buzzer Volume 90ddB/30cm = 100dB/10cm •Communication/charging is USB •Flow rate 350mL/min									
Application Department		Explosion proof	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									
t	Various standard tests	Perform ance	O : IEC/EN 60079-29-1 (combustibl O : JIS T8206 (combustible) : O : EN 50104 (O2) O : JIS T8201 (O2) : EN 45544 (toxicity) O : JIS T8205 (H2S) :									
		Other standard tests	O : IP 66/67 Equivalent : MED O : CPA :									
	Accessories		None									
	Sold separately		Tapered nozzle, hand strap, USB charger, etc.									
	(If there are notes on the of the req	arks any special background uest, etc., lescribe)	GX-2012 Type-A, GT, and dry cell battery specification is supported by the successor to the GX-6000.									
			7									
	The 938		the of Discussion: October 19, 2020) Results of Discussion (Date of Discussion: Month/Year)									

	7 5		
II Sales Conference	The 938 th Results of Discussion (Date of Discussion: October 19, 2020) (Oadoption • rejection) Approval of this matter as drafted. Appeal to the Planning and Development Committee Check the contents again for product specification approval 10/20 Kobu	III Planning and Development Committee	Results of Discussion (Date of Discussion: Month/Year) (adoption • rejection)

Product specification list

Model: GX-2012MK II

Operational Rules>♠ As a general rule, the person in charge of the product in the Sales Engineering Section fills in/compiles the form.
♠ If you make new entries or make changes to the product specification list, use the "Confirmation Request/Response Sheet" to inform the project.
♠ Based on the commercialization plan, enter the sales request in black along with the [request entry date].
♠ Items that are not included in the commercialization plan will be filled in as soon as the sales request is finalized.
♠ If you have updated it, enter the updated date in [Last update] on the upper right.

[Basis for request] [Request entry date] [Status]

							[Basis for request] (If there is a significant change from the previous model	[Request entry date]	[Status]	[Change details/Reason]
			Black: Sales request		<mark>d:</mark> Request cha lear reason for		or if the basis for the change is clear, such as a standard, a competitor's rivalry, or a customer requirement, etc., describe the change.	Enter date entered (Example)2020.4.1	When it is confirmed, write "confirmed" and the date (Example)confirmed(2020.4.1)	If you want to change the sales request, enter the details of the change and the reason in [Change details/Reason] along with the date.
		Model					(Example) Requirements of IEC60079-29-1			
	(Destable	Shape		Por	table		_	2020.10.15		
		e/Stationary/Other) etection target gas	HC or CH4 O2 CO H2S				_	2020.10.15		
-		Detection principle	Contact		potential electr		_	2020.10.15		
_		Sensor shape	combustion type		ensor		_	2020.10.15		
Sensor		Detection range	0-100%LEL	0-40.0vol%	0-2000ppm	0-200.0ppm	Flammable vol range not supported	2020.10.15		
-		1 degit	1%LEL	0.1vol%	1ppm	0.1ppm	due to cost reduction	2020.10.15		
_	1	ndication accuracy						2020.10110		
_		Response time								
		Alarm setpoint								
		Kinds	3-stage alarm (can be set as desired on the main unit)				_	2020.10.15		
Gas Alarm		Operation	-		ation / Screen [_	2020.10.15		
-		Recovery action			nolding		_	2020.10.15		
		Kinds	System error	/ Sensor error	/ Low battery vo	oltage / Poor	_	2020.10.15		
Fault		Operation	Buzze		Low flow rate	Display	_	2020.10.15		
Alarm		Recovery action				,	_	2020.10.15		
	Recovery action Self-holding Display LCD digital (7 segments + symbols)						_	2020.10.15		
		Function			ta logger, snapsh		_	2020.10.15		
Software -		Communication			r configuration		_	2020.10.15		
-		Data logger	335 (108	auta output, ro	- comigaration			2020.10.10		
		Detection method		Pump su	ction type		_	2020.10.15		
-				·			Inferior to the current one, but			
-		Suction flow	350ml/min 90dB/30cm = 100dB/10cm or more				priority is given to cost reduction Inferior to the current one, but	2020.10.15		
		Buzzer volume			at is easy to he		priority is given to cost reduction	2020.10.15		
	Opera	ating temperature range	-20 - +50°C	C(=GX-2012/c	ompetitors) equ	ıal or better	_	2020.10.15		
Case	Оре	erating Cumidity range	0 - 95%RH (=GX-2012)equal or better				_	2020.10.15		
	Externa	al dimensions (W×H×D)	About 71 × 1	73 × 43mm (GX	(-2012) equal to	or less than	_	2020.10.15		
		Mass	About 360g(=GX-2012) equal to or less than				_	2020.10.15		
	Drop Endurance		3m or more			Equivalent to PS200 With protection cover, etc. is acceptable.	2020.10.15			
		Protection grade	Equivalent to IP66/67			competing with the competition (BW Max XT II /Ventis MX4)	2020.10.15			
Power		Power	li	thium-ion rech	argeable batter	у	Charge-only for cost reduction	2020.10.15		
rower	C	Continuous use time	約1	0 hours(GX-20	012) equal or be	tter	_	2020.10.15		
		Structure/Grade	Intrinsically :		-proof structure T4	e∕Ex daia II	_	2020.10.15		
	Explosion proof	Kinds	China Ex, ITRI(T	aiwan), INMETRO	proof, CCA/UL(N (Brazil), EAC(Rus PESO/DGMS(Indi	ssia and others),	It is planned to decide whether each test is acquired at RIKEN or at a store.	2020.10.15		
		Performance	IEC/EN 60079-29-1 (combustible), IEC/EN 50104(O2), JIS T8205 (combustible), JIS T8201(O2), JIS T8205(H2S)				_	2020.10.15		
		Equipment positioning								
Standard		Target Specifications								
Test		Compliant Standards								
	SIL	Functional Safety Level								
		Operation Mode								
		Specific specifications for functional safety								
		Other	CE Marking, CPA(China), Russian Measurement Equipment Certification				It is planned to decide whether each test is acquired at RIKEN or at a store.	2020.10.15		
Oue :	Sensor			3 y	ears		_	2020.10.15		
Guarantee -	Body		3	years(Excludi	ng consumables	;)	_	2020.10.15		
Accessories				No	one		All special accessories for cost reduction	2020.10.15		
	Options	(sold separately)	Taper nozzle, l	pelt clip, hand s re the same as	strap, battery c s GX-2012, SDI	harger, Others M	_	2020.10.15		
	External	application linkage		No	one		Not supported due to cost reduction	2020.10.15		
Other		Other		No	one		_	2020.10.15		