

MODEL: GX-9000

Portable Multi Gas Detector MODEL:

RIKEN KEIKI

GX-9000

GX-9000 SERIES

MODEL:

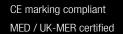
GX-9000H

Detects up to

different gas types simultaneously.

A single unit suitable for all kinds of marine/onshore/underground work situations. Innovative new gas detector

- Detects up to six different gas types simultaneously (HC/CH₄/H₂, O₂, CO, H₂S, CO₂, NH₃, VOCs, etc.
- Features a wide range of handy functions, including multilingual display and a combustible gas conversion function.
- Bluetooth® equipped! Easy data management via smartphone (option)





Up to three-year sensor warranty

RIKEN KEIKI

GX-9000H

- Passes 1.5 m drop testing
- Protection rating equivalent to IP66/68

RIKEN KEIKI Co., Ltd.

Portable Multi Gas Detector **MODEL:**

RIKEN KEIKI

SLOW

бх-9000н

GX-9000

ERIES Next-generation high-performance sensor

Features "R Sensors" and "F Sensors"

Next-generation high-performance sensor offering smaller size and significantly better performance and durability than previous sensors



Simultaneous target gases Max



Greater number of gases with a single unit

Allows simultaneous detection of multiple gases using a single-unit instead of requiring multiple gas detectors and detector tubes.





Ability to measure up to 2 gas types simultaneously

In addition to **4** main gas types

Approx.

Sensor combinations Approx **Optimum solutions to suit**

customers' needs

Single unit measures up to six different gas types and detects CO₂ and a broad range of toxic gases, including VOC and NH₃. Ideal gas detector for customer needs.

> Sensor warranty Max vears

Longer warranty for peace of mind

Utilizes R/F Sensor for outstanding long-term stability. Up to three-year sensor warranty*. Allows use with peace of mind.

* NH₃ sensor: two years; O₃/VOC sensor: one year

General-purpose type for measuring up to six different gas types

RIKEN KEIKI

Model: GX-9000

High concentration H₂S type for measuring up to four different gas types

Model: GX-9000H

Allows switching between high concentration H₂S and other sensors to avoid poisoning of other sensors by high concentration H₂S.

Low concentration H₂S/other gas measurement mode and high concentration H₂S measurement mode Easily selected using buttons

LEDs on left and right light up to indicate selected mode at a glance. (High concentration H₂S measurement mode shown selected in example below)



[Handy features for ease of use]

Choice of 16 different language displays

English	French	Mandari
Cantonese	German	(Simplified
(Traditional	Italian	Chinese)
Chinese)	Japanese	Polish
Czech	Korean	Portugue

Russian in Slovak d Spanish Turkish Vietnamese ese

USB Type-C charging and data transfer

Uses USB Type-C cable for both charging and PC interface. Recorded measurement data can be uploaded to PC software (sold separately), reducing the time required.

Conversion

from i-C4H10

models

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Conversion

from CH4

models

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Combustible gas conversion function (when new ceramic type sensor is installed)

Gas name

Acetone

Propane

Butadiene

Cvclopentane

Benzene

n-hexane

Toluene

Heptane Xvlene

Models that include combustible gas among their detection target gases can be used to directly read off up to 27 different types of combustible gas. *Available only with i-C4H10 and CH4 models when using new ceramic type sensor, provided no thermal conductivity sensor is installed.

Display

name

C3H6O

СзНа

C₄H₆

C5H10

C₆H₆

n-C6H14

C7H8

n-C7H16

Gas name	Display name	Conversion from i-C4H10 models	Conversion from CH ₄ models
Methane	CH4	×	-
Isobutane	i-C4H10	-	0
Hydrogen	H2	0	0
Methanol	CH₃OH	0	0
Acetylene	C2H2	0	0
Ethylene	C ₂ H ₄	0	0
Ethane	C ₂ H ₆	×	0
Ethanol	C2H5OH	0	0
Propylene	C3H6	0	0

Alarm setpoint setting function

Use the setup program to change/ edit settings. Supports management and operation in accordance with the customer's own criteria.

L Outstanding durability for greater peace of mind





1.5 m Drop testing passed





Operating temperature range -40 – +60 °C (temporary use environment)

C8H10 **Confirmation beep function**

Indicates that the gas detector is functioning normally. The buzzer sounds at preset intervals while measurement is underway.

Gas name	Display name	Conversion from i-C4H10 models	Conversion from CH ₄ models
n-nonane	n-C9H20	0	0
Ethyl acetate	EtAc	0	0
IPA	IPA	0	0
MEK	MEK	0	0
Methyl methacrylate	MMA	0	0
Dimethyl ether	DME	0	0
Methyl isobutyl ketone	MIBK	0	0
Tetrahydrofuran	THF	0	0
n-pentane	n-C5H12	0	0

Calibration notification function

Indicates the number of days until recommended regular maintenance when the power is turned on. Reminds the user to perform maintenance to ensure safe use.

L Suitable for use even with large tanks! Features high-power pump]

Includes a high-power pump allowing use even for large tanks. Capable of aspirating and assessing gases from up to 45 m away using the optional sampling tube.



Bluetooth[®] equipped!^{*} Easy data management via smartphone

Can communicate with smartphones via Bluetooth. The dedicated RK Link app can be used to store and email measurement results and easily manage data. A function also allows automated email generation to registered addresses when an alarm occurs to share details of emergencies remotely and in real time.

*Bluetooth® functionality is available only in countries and regions that comply with the Radio Law (EU, US, Canada, Australia, and Japan). Please specify when ordering if you require Bluetooth® functionality.



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1.2

[Accessories]

Tubes/belts

Gas sampling rod Part No.: 0904 0275 00

Gas sampling tube

(Gas sampling tube length: approx. 75 cm) Part No.: 0914 0135 30

Shoulder strap Part No.: 4777 4592 10

Batteries and other accessories

AC adapter

Part No.: 2594 1342 30 *Included with rechargeable battery models (converter plug (Type C) bundled with ATEX/ **IECEx** models)





AA alkaline battery ×6

Part No. (×1): 2753 3007 80

*Included with dry battery models

[Optional accessories]

Tubes

Sampling tube with float

Gas can be separated from water and detected by a waterproof filter inside the float. Ideal for locations where water is present at the

detection point Tube length: 8 m

Part No.: 4384 0430 60 Tube length: 30 m

Part No.: 4775 9678 80

Tube length: 45 m Part No.: 4777 9567 60



Batteries

Dry battery unit/AA alkaline batteries

Inserting batteries allows instant use in emergencies. Dry battery unit

Part No .: (Japanese explosion-proof models) 4777 9603 60

(ATEX/IECEx models) 4777 9605 10

AA alkaline hatteries Part No.: 2753 3007 80

Lithium ion battery unit/AC adapter

The battery unit can be recharged and used repeatedly. The AC adapter uses a USB Type-C connection.

Lithium ion battery unit

Part No .: (Japanese explosion-proof models) 4777 9602 90 (ATEX/IECEx models) 4777 9604 30



AC adapter Part No.: 2594 1342 30

Filter

Water trap

Connects between the sampling tube and gas detector to keep water out.

Part No.: 0904 0186 20





For measurements

inside tanks



For measurements inside tanks



Absorbent cotton filter/Connecting tube Diluter

Tube connected to waterproof filter and gas detector

*Do not use if an ESF/PIF sensor is installed Absorbent cotton filter

Part No.: 4383 0850 00 **Connecting tube** Part No.: 4775 9617 60

Absorbent cotton (replacement) Part No.: 1879 0011 10



Absorbent cotton filter Connecting tube

Dilutes gas aspirated with air at a 1:1 ratio to allow use of new ceramic sensors with inert gases, gases ceramic sensors typically cannot detect.

*Due to explosion hazards, avoid use with highly concentrated combustible gase

Part No.: 4775 9934 30



*The particular type and whether or not the fresh air adjustment filter and filter cylinder retaining belt are included vary depending on the individual model.

Appearance with accessories attached

Fresh air adjustment filters

Sampling tube with weight

The tube end is weighted to make it easier to lower. Ideal for use in narrow pipes and other confined locations.

connecting tube (except for models with ESF/PIF

Tube length: 45 m Part No.: 4777 9465 80



*Requires use with absorbent cotton filter and sensor installed)

Tube length: 30 m Part No.: 4775 9679 50

For measurements in specific locations within reach

Filter cylinder retaining belt for shoulder strap

Allows fresh air adjustment filter to be attached to

shoulder strap.

Part No.: 4777 4572 20



Case/holder

Leather case

Protects the product against dirt. Used to attach shoulder strap, waist belt, and absorbent cotton filter Part No.: 4777 4593 80



Waist belt and waist belt attachment

Allow a gas detector to be worn close to the body *We recommend using in conjunction with the shoulder strap to prevent the gas detector dropping. Waist belt

Part No : 4775 5653 40 Waist belt attachment Part No.: 4775 9853 10



Filter cylinder retaining belt

Attaches to the gas detector; allows absorbent cotton filter to be attached to the gas detector. Allows the filter to be secured to the gas detector to keep it out of the way during measurements.

Part No.: 4777 9444 20



Aluminum storage case

Houses the gas detector together with accessories and optional accessories, like sampling tubes. Dimensions: Approx. 365 mm (W) \times 236 mm (H) \times 226 mm (D)* Part No.: 4777 9579 00



Management software and cable

USB cable (1 m)

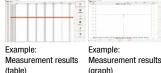
Connects the gas detector to a PC. Used when using the software. Part No.: 2440 2728 90



Data logger management program

Software used to view and manage measurement results and logs of events like alarms and calibrations

Part No.: (Japanese explosion-proof models) 9811 0980 90 (ATEX/IECEx models) 9811 0990 80



(graph)

sampling rod tip to be stowed. Part No.: 4775 5651 00

Sampling rod

Attaches to the shoulder

strap; allows the gas

holder

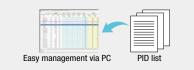






Setup Program

Use the Setup Program for the GX-9000 Series to configure settings and edit a list of more than 600 different VOC sensor gases. This can be downloaded free of charge from the Riken Keiki website.



Maintenance parts and other items

Calibration qas

Used for bump test and das adjustment *Please contact Riker Keiki for more information

Adapter plug

The Type A AC adapter can be

converted to Type C, O, or BF.

Part No.: (Type C) 2594 1435 00

(Type 0) 2594 1434 20

(Type BF) 2594 1436 70



Gas sampling bag

Used to draw the calibration gas into the gas detector. Available in a choice of three colors for easy differentiation when used with different gases

Part No.: 1L (green) 0904 0103 80 1L (orange) 0904 0104 50 2L (black) 0904 0288 10

Protective film

(for LCD, set of 5) Part No.: 4777 9025 70





Filters (replacement)

Please contact Riken Keiki for more information.

Demand flow valve and connecting tube (10 cm)

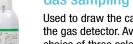
Connect to a dedicated gas cylinder to supply the required amount of gas to the gas detector. *Please contact Riken Keiki for details of the

compatible gas cylinders.

Demand flow valve Part No.: 1641 0190 20 Connecting tube (10 cm) Part No.: 4775 5958 10



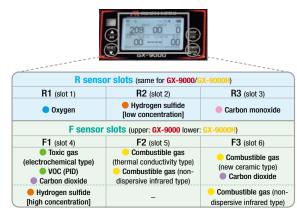




Sensors]

Sensor selection

The GX-9000 accepts up to six sensors. The GX-9000H accepts up to five. Each of the three R sensors (R1 - R3) can be selected or unselected. One sensor (or no sensors) can be selected from each box in the table below for F sensors (F1 - 3).



Combustible gas sensor selection

Three different types of combustible gas sensors can be installed: a new ceramic type, thermal conductivity type, and/or non-dispersive infrared type. Referring to the features below, select the sensors to suit the intended purpose.

Detection principle	New ceramic type	Thermal conductivity type	Non-dispersive infrared type
Detection range	%LEL	vol%	%LEL/vol%
Features	Detects H ² Uses combustible gas conversion function	Detects H ²	 Detects even in inert gas Can be used even in environments where Si is present

02 CO CH4/O2/H2S/CO Four main H_2S **GX-9000** VOC (10.6 eV/ppm) +1 VOC Combustible gas sensor Product code New ceramic type + thermal conductivity type First 8 characters: C1P2T1N1 Example 2: Four main gas types + 2 **0**₂ H₂S <u>n.</u>1] Four main gas types **GX-9000** HC/02/H2S/CO +2 NH₃/CO₂ NH₃ **C**() Combustible gas sensor: Product code First 8 characters: C1E1R2R5 Non-dispersive infrared type Example 3: Main gas type + 2 02] Main Gas **GX-9000 0**2 VOC (10.6 eV/ppb)/CO₂ +2 VOC **CO**2 Combustible gas sensor: Product code N/A First 8 characters: C4P100R5 Example 4: Four main gas types + 1 02 H₂S CA Four main gas types HC/02/H2S/CO H₂S [high concentration] +1 Combustible gas sensor Product code Non-dispersive infrared type First 8 characters: D1E800R2

Sensor selection examples * Four main gas types = Combustible gas/0²/H²S [low concentration]/CO

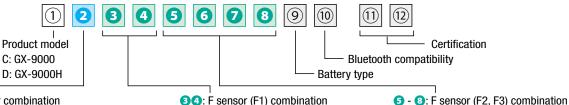
Example 1: Four main gas types + 1

1,000 ppm All of these are examples. Examples 1 and 2 show sensors installed to full capacity. Note that fewer sensors can be installed. Different combinations of sensors can be installed. Refer to the 'Product code table' below to select sensors.

GX-9000

[Product code table]

Select a GX-9000 Series product based on the sensors needed, power supply type, Bluetooth functionality, and explosion-proof specifications. Refer to the product table below to select the desired specifications.



2: R sensor combination

Ourshall	R1	R2	R3
Symbol	Sensor model	Sensor model	Sensor model
0	N/A		
1	ESR-X13P (02)	ESR-A13i (H ₂ S)	ESR-A13P (CO)
2	ESR-X13P (02)	ESR-A13i (H ₂ S)	N/A
3	ESR-X13P (02)	N/A	ESR-A13P (CO)
4	ESR-X13P (02)	N/A	
5	N/A	ESR-A13i (H ₂ S)	ESR-A13P (CO)
6	N/A	ESR-A13i (H ₂ S)	N/A
7	N/A	N/A	ESR-A13P (CO)

9: Battery type

Symbol	Details
L	Lithium ion battery unit BUL-9000
D	Drv battery unit BLID-9000

10: Bluetooth functionality

Symbol	Details
0	Not Bluetooth compatible
1	Bluetooth compatible

(11)(12): Certification

Symbol	Details
00	Japan Ex
50	ATEX/IECEx
62	MED / UK-MER ⁺⁷

*7 (9): Only L(BUL-9000) can be selected.

2/5 - 8: Please include at least one of the following: CH4, i-C4H10, H2, or O2

34: F sensor (F1) combination CY_0000

GX-9000		
Symbol	F1	
	Sensor model	
00	N/A	
P1	PIF-001 (VOC) 10.6 eV, units: ppb	
P2	PIF-002 (VOC) 10.6 eV, units: ppm	
P3	PIF-003 (VOC) 10.0 eV, units: ppm	
E1	ESF-B242 (NH ₃)	
E2	ESF-C930 (Cl ₂)*1	
E3	ESF-B249 (O ₃)*1	
E4	ESF-A24E2 (HCI)	
E5	ESF-A24D4 (SO ₂)	
R5	IRF-4443 (CO ₂)*2	

- *2 ⑤ com insta

GX-9000H

Symbo

E8

Symbol	F2	F3
	Sensor model	Sensor model
00 00	N/A	
00 N1	N/A	NCF-6322P (CH4)*5
T1 N1	TEF-7520P (CH4)	NCF-6322P (CH4)*5
00 N2	N/A	NCF-6322P (i-C4H10)
T2 N2	TEF-7520P (i-C4H10)	NCF-6322P (i-C4H10)
00 N4	N/A	NCF-6322P (H2)*3
T4 N4	TEF-7520P (H2)*3	NCF-6322P (H2)*3
00 N5	N/A	NCF-6322P (C ₂ H ₂)*3, 4
00 N6	N/A	NCF-6322P M (CH4)*6
T1 N6	TEF-7520P (CH4)	NCF-6322P M (CH4)*6

N/A

IRF-4443 (CO2)

N/A

IRF-4443 (CO2)

1	2: ESR-A13i (H2S) cannot be selected in R sensor	
	combination.	

8: Can be selected for F sensor (F2/F3)	
bination, only when NCF-6322P/NCF-6322P M is	
alled for F3.	

F1

Sensor model

ESF-A24R2 (high concentration H₂S)

IRF-4443 (CO2) 00 R5 N/A *3 2: ESR-A13P (CO) cannot be selected for R sensor combination.

*4 34: E5 cannot be selected for F sensor combination.

IRF-4341 (CH4)

IRF-4341 (CH4)

IRF-4345 (i-C4H10)

IRF-4345 (i-C4H10)

*5 (1)(12): Only 00(Japan Ex) can be selected

*6 (1)(2): Only 50(ATEX / IECEx) or 62(MED / UK-MER) can be selected.

R1 00

R1 R5

R2 00

R2 R5

	ux-9000h					
	Symbol F2		F2	F3		
	Symbol	Sensor model	Sensor model			
	00 00	N	/A			
	00 R1	N/A	IRF-4341 (CH4)			
	00 R2	N/A	IRF-4345 (i-C4H10)			

Reference: Same combination of first eight character product codes as previous GX-8000/RX-8500 models GX-8000 TYPE A (HC): C100T2N2 / GX-8000 TYPE B (CH4): C10000N1 / RX-8500: C300R1R5

[Sensor specifications]

Detection target gas		Oxyge	en (O2)	Hydrogen sulfide (H ₂ S [low concentration])		Carbon monoxide (CO)		
Sensor model		ESR-	X13P	ESR-A13i		ESR-A13P		
Detection principle				Electroche	emical type			
Explosion-proc	f specifications	Japan Ex	ATEX/IECEx	Japan Ex	ATEX/IECEx	Japan Ex and ATEX/IECEx		
Display range		0 - 40.	0 vol%	0 - 200.0 ppm		0 - 2,000 ppm		
Detection rang	e	0 - 25	0 vol%	0 - 30.0 ppm	0 - 100.0 ppm	0 - 500 ppm		
Resolution		0.1 vol%		0.1 ppm		1 ppm		
	First alarm	18.0 vol%	19.5 vol%	1.0 ppm	5.0 ppm	25 ppm		
Alarm	Second alarm	25.0 vol%	23.5 vol%	10.0 ppm	30.0 ppm	50 ppm		
setpoints*1	TWA	OFF		1.0	0 ppm	25 ppm		
	STEL	OFF		5.0	0 ppm	200 ppm		
Operating temperature	Continuous use environment	-20 °C to +50 °C						
range	Temporary use environment ^{*2}	-40 °C to +60 °C						
Operating humidity	Continuous use environment	10 %RH to 90 %RH						
numidity range	Temporary use environment*2	0 to 95 %RH						

F sensor							
Detection target gas		Methar	ne (CH4)	Isobutane (i-C4H10)	Hydrogen (H2)	Acetylene (C ₂ H ₂)	
Sensor model		NCF-6322P M		N	CF-6322P		
Detection prin	ciple		New ceramic type				
Explosion-pro	of specifications	ATEX/IECEx	ATEX/IECEx Japan Ex Japan Ex and ATEX/IECEx				
Display range/Detection range			0 - 100 %LEL				
Resolution		1 %LEL					
Alarm	First alarm	10 %LEL					
setpoints*1	Second alarm		50 %LEL				
Operating temperature	Continuous use environment	-20 °C to +50 °C					
range	Temporary use environment ²	-40 °C to +60 °C					
Operating	Continuous use environment			10 %RH to	90 %RH		
humidity range	Temporary use environment ^{*2}		0 to 95 %RH				

Detection target gas		Isobutane (i-C4H10)	Methane (CH4)			
Sensor model		IRF-4345	IRF-4341			
Detection print	pie	Non-dispersive	infrared type			
Display range/	Detection range	0 - 100 %LEL/100 %	6LEL - 100.0 vol%			
Resolution		0.5 %LEL/0.1 vol%				
Alarm	First alarm	10.0 %LEL				
setpoints*1	Second alarm	50.0 %LEL				
Operating	Continuous use environment	-20 °C to	+50 °C			
temperature range	Temporary use environment ^{*2}	-40 °C to +60 °C				
Operating	Continuous use environment	10 %RH to 90 %RH				
humidity range	Temporary use environment ^{*2}	0 to 95	%RH			

Detection target gas		Isobutane (i-C4H10)	Methane (CH4)	Hydrogen (H2)	
Sensor model			TEF-7520P		
Detection prin	ciple	Thermal conductivity type			
Display range/	Detection range	0 - 100.0 vol%			
Resolution			0.1 vol%		
Alarm First alarm		25.0 vol%			
setpoints*1	Second alarm	50.0 vol%			
Operating	Continuous use environment	-20 °C to +50 °C			
temperature range	Temporary use environment ^{*2}	-40 °C to +60 °C			
Operating humidity	Continuous use environment	10 %RH to 90 %RH			
range	Temporary use environment ^{*2}	0 to 95 %RH			

Detection targ	et gas	Carbon dioxide (CO2)	
Sensor model		IRF-4443	
Detection prin	ciple	Non-dispersive infrared type	
Display range/	Detection range	0 - 20.00 vol%	
Resolution		0.01 vol% (0 - 5 vol%)/0.1 vol% (5 - 20 vol%)	
Alarm	First alarm	5.00 vol%	
setpoints*1	Second alarm	10.00 vol%	
Operating temperature	Continuous use environment	-20 °C to +50 °C	
range	Temporary use environment ^{*2}	-40 °C to +60 °C	
Operating	Continuous use environment	10 %RH to 90 %RH	
humidity range	Temporary use environment ^{*2}	0 to 95 %RH	

Detection target gas		Hydrogen sulfide (H ₂ S [high concentration])	Ammonia (NH3)	Chlorine (Cl ₂)	Ozone (O3)	Hydrogen chloride (HCl)	Sulfur dioxide (SO2)		
Sensor model		ESF-A24R2	ESF-B242	ESF-C930	ESF-B249	ESF-A24E2	ESF-A24D4		
Detection princ	ciple			Electroche	mical type				
Display range/	Detection range	0 - 1,000 ppm	0 - 75.0 ppm	0 - 1.50 ppm	0 - 0.600 ppm	0 - 6.00 ppm	0.0 - 100.0 ppm		
Resolution		1 ppm	0.5 ppm	0.01 ppm	0.005 ppm	0.05 ppm	0.1 ppm		
	First alarm	1,000 ppm	25.0 ppm	0.50 ppm	0.100 ppm	2.00 ppm	2.0 ppm		
Alarm	Second alarm	1,000 ppm	50.0 ppm	1.00 ppm	0.200 ppm	4.00 ppm	5.0 ppm		
setpoints*1	TWA	OFF	25.0 ppm	0.50 ppm	0.100 ppm	OFF	2.0 ppm		
	STEL	OFF	35.0 ppm	1.00 ppm	OFF	OFF	5.0 ppm		
Operating	Continuous use environment	-20 °C to +50 °C	-20 °C to +50 °C	0 °C to 50 °C	10 °C to 40 °C	0 °C to 40 °C	-20 °C to +50 °C		
temperature range	Temporary use environment ^{*2}	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	10 °C to 40 °C	0 °C to 40 °C	-40 °C to +60 °C		
Operating	Continuous use environment	20 %RH to 90 %RH	30 %RH to 80 %RH	30 %RH to 80 %RH	30 %RH to 80 %RH	20 %RH to 90 %RH	20 %RH to 90 %RH		
humidity range	Temporary use environment ^{*2}	0 to 95 %RH							

Detection target gas			Volatile organic compounds (VOCs)			
Sensor model		PIF-001	PIF-002	PIF-003		
Detection principle			Photoionization detector (PID)			
Ionization ener	gy	10.6 eV	10.6 eV	10.0 eV		
Display range/Detection range		0 - 40,000 ppb	0 - 4,000 ppm	0 - 100.0 ppm		
Resolution		1 ppb (0 - 4,000 ppb)/ 10 ppb (4,000 - 40,000 ppb)	0.1 ppm (0 - 400.0 ppm)/ 1 ppm (400.0 - 4,000 ppm)	0.01 ppm (0 - 10.00 ppm)/ 0.1 ppm (10.00 - 100.0 ppm)		
	First alarm	5,000 ppb	400.0 ppm	5.00 ppm		
Alarm	Second alarm	10,000 ppb	1,000 ppm	10.0 ppm		
setpoints*1	TWA	OFF	OFF	OFF		
	STEL	OFF	OFF	OFF		
Operating temperature	Continuous use environment	-20 °C to +50 °C				
range	Temporary use environment ^{*2}	-40 °C to +60 °C				
Operating humidity	Continuous use environment	10 %RH to 90 %RH				
range	Temporary use environment ^{*2}	0 to 95 %RH				

*1 Alarm setpoints: The above are default values. If a value is listed or OFF is listed, it can be set to any value using the setup program.

*2 Approx. 15 minutes.

[Product Specifications]

Model	GX-9000	GX-9000H		
Concentration display	LCD digita	al (full dot)		
Detection target gas	Combustible gas (i-C4H10/CH4/H2/C2H2), oxygen (O2), toxic gas (H2S [low concentration]/CO/NH3/CI2/O3/HCI/SO2/VOCs), carbon dioxide (CO2)	Combustible gas (i-C ₄ H ₁₀ /CH ₄), oxygen (O ₂), Hydrogen sulfide (H ₂ S [low concentration] [high concentration]), carbon monoxide (CO)		
Detection method	Pump suction type			
Suction flow rate	Minimum 0.75 L/n	nin (open flow rate)		
Display items	Clock, battery leve	I, operating status		
Display languages	English, Cantonese (Traditional Chinese), Czech, French, Gern Polish, Portuguese, Russian, Slov			
Buzzer volume	Approx. 95 dB (mean value a	at 30 cm from sound source)		
Gas alarm indication	Lamp flashing, continuous modulating buzzer	sounding, gas concentration readout blinking		
Gas alarm pattern	Self-latching	g, auto reset		
Fault alarm/self- diagnosis	Flow abnormality, system abnormality, sensor abnormality	, low battery voltage, calibration failure, clock abnormality		
Fault alarm icon	Lamp flashing, intermittent b	uzzer sounding, detail display		
Fault alarm pattern	Self-la	tching		
Communication specifications	USB 2.0 Type-C (for data logger/setting), Bluetooth 4.2 (Bluetooth Low Energy)			
Power source	Dedicated lithium ion battery unit (BUL-9000) or dedicated dry battery unit (AA alkaline batteries \times 6) (BUD-900			
Continuous operating time ^{*1}	Lithium ion battery unit: Approx. 25 hours Dry battery unit: Approx. 12 hours (at 25 °C, no alarm, no lighting)	Lithium ion battery unit: Approx. 35 hours Dry battery unit: Approx. 15 hours (at 25 °C, no alarm, no lighting)		
Operating temperature range*2	Approx. 15-minute temporary use environment: -40 °C to +60 °C (no sudden changes) Continuous use environment: -20 °C to +50 °C (no sudden changes)	Approx. 15-minute temporary use environment: -40 °C to +60 °C (no sudden changes) Continuous use environment: -20 °C to +50 °C (no sudden chang		
Operating humidity range ^{*2}	Approx. 15-minute temporary use environment: 0 %RH to 95 %RH (no condensation) Continuous use environment: 10 %RH to 90 %RH (no condensation)	Approx. 15-minute temporary use environment: 0 %RH to 95 %RH (no condensation) Continuous use environment: 10 %RH to 90 %RH (no condensation)		
Operating pressure range	80 kPa to 120 kPa (80 kPa to 11	0 kPa for explosion-proof range)		
Construction	Dustproof, waterproof construction equiva	lent to IP66/68*3, drop resistant to 1.5 m		
Explosion-proof construction	Intrinsically safe explosion-proof construction, flam Intrinsically safe explosion-proof constru			
Explosion-proof class	IECEx'4 ATEX'4 Ex da ia IIC T4 Ga II 1 G Ex da ia IIC T4 (with new ceramic type sensor) (with new ceramic t Ex ia IIC T4 Ga II 1 G Ex ia IIC T4 Ga (without new ceramic type sensor) (without new ceramic t	ype sensor) (with new ceramic type sensor) a Ex ia IIC T4 Ga		
Certifications	CE marking, MED / UK-MER, JIS T 8201:2010 (Oxygen deficience	y indicator), JIS T 8205:2018 (Hydrogen sulfide indicator/alarm)		
External dimensions	Approx. 158 mm (W) \times 85 mm (H) \times	132 mm (D) (excluding projections)		
Weight*5	Approx. 1.1 kg	Approx. 1.2 kg		

*1 Continuous operating time: Varies depending on the sensor installed.

*2 Operating ambient temperature/humidity range: May vary depending on the sensor installed. Refer to 'Sensor Specifications' on P. 6.

*3 IPx8: No water penetration when submerged at depth of 2 m for 1 hour.

*4 Dry battery models when using Toshiba (LR6) or Duracell (MN1500) batteries: -40 °C to +40 °C: T4, -40 °C to +60 °C: T3.

*5 Including battery and battery unit.

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