Weights

just

100g!



STATISTICS.

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Model Portable gas monitor GX-BR

CO/H2S LEL 02

Small & Light

The newly developed dual-sensor configuration reduces size by approximately 30% compared to previous models. Light weight (about 100g) means it won't interfere with your work.

5-year warranty

The instrument and sensors have 5-year warranty*. *Option.

Intrinsically safe explosion-proof construction and flame - proof enclosures

Water and dust resistant IP66/68

Robust design (Withstands 7m drop)



Play the Promotional video from here.

RIKEN KEIKI Co., Ltd.

Active in various fields!



Conversion gas

Methane Isobutane Hydrogen Methanol Acetylene Ethane Ethanol Propylene Acetone Propane Butadiene Cyclopentame

Compact lightweight design won't impede work in confined spaces.

Tough design to withstand 7m drop, that you can use even when working at heights.

Use the suction unit to confirm safety before entering pits.

The newly developed CO sensor reduces effects of hydrogen interference.

You can understand at a glance! GX-3R

Model	GX-3R
Detection gas	1 to 4 types
Battery	Rechargeable battery
Detection method	Diffusion type *Pump unit available as option (see next page)
Alarm setpoint	Settings can be changed.
Combustible gas conversion function	27 types
Data logger function	Records up to 3,600 data.
Confirmation beep function	Can be changed (see section below for details).
Lunch break function	Can be changed (see section below for details).
Protective cover	Provided as standard
Heat-resistant case, leather case	Optional accessories
Five-component detection	\Rightarrow We recommend the GX-3R Pro model.
Dry battery power	\Rightarrow We recommend the GX-3R Pro model.
Bluetooth	\Rightarrow We recommend the GX-3R Pro model.

Combustible conversion gas list

Gas name displayed	Calibration gas conversion		Conversion gas	Gas name	Calibration gas conversion		
	CH4	i-C ₄ H ₁₀	Conversion gas	displayed	CH4	i-C ₄ H ₁₀	
	CH_4	_	×	Benzene	C_6H_6	0	0
	$i\text{-}C_4H_{10}$	0	—	n-Hexane	$n-C_6H_{14}$	0	0
	H_2	0	0	Toluene	C_7H_8	0	0
	CH₃OH	0	0	n-Heptane	n-C7H16	0	0
	C_2H_2	0	0	Xylene	C_8H_{10}	0	0
	C_2H_4	0	0	n-Nonane	n-C9H20	0	0
	C_2H_6	0	×	Ethyl acetate	EtAc	0	0
	C_2H_5OH	0	0	Isopropyl alcohol	IPA	0	0
	C_3H_6	0	0	Methyl ethyl ketone	MEK	0	\bigcirc
	C_3H_6O	0	0	Methyl methacrylate	MMA	0	\bigcirc
	C_3H_8	0	×	Dimethyl ether	DME	0	0
	C_4H_6	0	0	Methyl isobutyl ketone	MIBK	0	0
	C_5H_{10}	0	0	Tetrahydrofuran	THF	0	\bigcirc
				n-Pentane	n-C 5 H12	0	0

Mounted with the new R sensors, which are long-term consistence sensors

GX-3R mounted with the new R sensor series, which have dramatically improved the performance from the previous sensors. The sensors have 5-year warranty*.

*Option.

HC or CH₄	O ₂	CO&H₂S	СО
Tough construction against poisoning- and impact-resistant!	New electrochemical oxygen sensor, which improved the basic characteristics.	2-in-1 configuration enabled smaller detector!	Significantly reduce H ₂ interference with a two-sensor structure!
		CO H23	

Wide range of safety functions

Combustible gas conversion function

Eliminates the need for complex calculations. Allows direct readout of **27** different combustible gas types.

Lunch break

Enabling this function retains the TWA and peak values and allows integrating measurement whether power is on or off.

Alarm setpoints can be freely adjusted

You can now adjust alarm setpoints on the main unit. Allows monitoring based on the customer's own standards.

Cal. Limit

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

Confirmation beep

- This function provides audible notification that the device is functioning correctly. Buzzer sounds at preset intervals while measurement is underway.
- measurement is underway.

Optional accessories



Pump unit RP-3R(S)

An external electric pump. Allows use for suction sampling.



Specifications					
Model	RP-3R (S)				
Suction flow rate	High mode: 0.5 L/min or more Low mode: 0.35 L/min or more				
Power source	AA alkaline battery × 1				
Continuous operating time	High mode: Approx. 10 hours Low mode: Approx. 16 hours				
Temperature range	-20°C~+50°C (at a constant condition)				
Humidity range	0~95%RH (non-condensing)				
Explosion-proof class	Inherently safe explosion-proof construction ATEX II 1 G Ex ia IIC T4 Ga IECEx Ex ia IIC T4 Ga Japan Ex Ex ia IIC T4 Ga				
Construction	Drip-proof and dust-proof performances compliant to IP67 level				
Dimensions / Weight	Approx. 93 mm (W) × 95 mm (H) × 29 mm (D) (excluding projections) / Approx. 130 g				
Optional accessories	Float-type gas collector (8 m)				
* Cannot be connec	ted to other models GX-2009. GX-3R Pro				

Docking station SDM-3R

Allows the user to perform a simplified pre-work check (bump test) and gas calibration automatically.



Specifications

Model	SDM-3R		
Power supply	100 ~ 240 V AC ±10 %, 50/60 Hz		
Suction flow rate	Approx. 0.25 L/min		
Temperature range	0~40 °C (at a constant condition)		
Humidity range	0~95 %RH (non-condensing)		
Dimensions / Weight	Approx. 130 mm (W) \times 110 mm (H) \times 250 mm (D) / Approx. 800 g		
Optional accessories	Connecting fixture, wall-mounting fixture, exhaust tube		

Also consider the high-spec [GX-3R Pro] model!

1) Up to 5 gases can be detected

Float-type gas collector (option)

Detects carbon dioxide and sulfur dioxide in addition to combustible gases, O², H²S, and CO.

② Connects with Bluetooth[®]

Allows connection to a smartphone. Use the dedicated app iOS, Android to send alarm notifications by email.

③ Runs on either dry cell or rechargeable batteries Unit system for easy replacement.

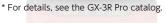
and others.

4 Easy-to-read full-dot display Supports a total of 11 different languages.

Model GX-3R Pro



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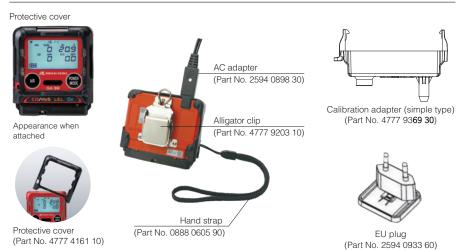
Model	GX-3R				
Detection method	Diffusion type (Changeable to sampling type by attaching RP-3R(S))				
Gas alarm indication	Lamp flashing, continuous modulating buzzer sounding, gas concentration display blinking, vibration Reset operation: Self-latching				
Fault alarm	System abnormality, sensor abnormality, battery voltage drop, calibration failure				
Fault alarm indication	Lamp flashing, intermittent buzzer sounding, detail display Reset operation: Self-latching				
Displays	LCD digital, backlight, operation status, clock, battery level, temperature, peak reading, calibration notification				
Buzzer volume	Approx. 95 dB (30 cm)				
Data logger function	Maximum number of items: 3,600 Interval: 5 minutes (adjustable) Communication system: IrDA				
Power source	Lithium ion rechargeable battery unit Charging time: Approx. 3 hours				
Continuous operating time*1	Long-life battery mode on: Approx. 40 hours (25 °C, fully charged, no alarm, no lighting) Long-life battery mode off: Approx. 25 hours (25 °C, fully charged, no alarm, no lighting)				
Temperature range/ humidity range* ²	-40 °C \sim +60 °C (no sudden changes), 0 \sim 95 %RH (non-condensation)				
Certifications*3	ATEX, IECEx, Japan Ex, INMETRO, China Ex, JG, MED, JIS T 8201, JIS T 8205, EN 50104, EN 45544-1 EN 45544-2, EN 45544-3, EN 60079-29-1, CE marking				
Explosion-proof class*3	ATEX II 1 G Ex da ia IIC T4 Ga / I M1 Ex da ia I Ma (With combustible gas sensor) II 1 G Ex ia IIC T4 Ga / I M1 Ex ia I Ma (No combustible gas sensor) IECEx Ex da ia IIC T4 Ga / Ex da ia I Ma (With combustible gas sensor) Ex ia IIC T4 Ga / Ex ia I Ma (No combustible gas sensor) Japan Ex Ex ia IIC T4 Ga				
Protection level	Equivalent to IP66/68 (2 m, 1 h)				
External dimensions/weight	Approx. 58 mm (W) × 65 mm (H) × 26 mm (D) (excluding protrusions) / Approx.100 g				
Warranty	3 years (optional 2 years extension available)				

*2 In temporary ambient conditions for approximately 15 minutes. The operating temperature and humidity ranges for continuous ambient conditions are as follows: Temperature: -20 °C to +50 °C (no sudden changes) / Humidity: 10 to 90 %RH (no condensation)
*3 Applicable standards and certifications vary depending on the specifications of the gas detector. Please specify at the time of purchase.

Detection gas

Detection target gas	Combustible gas (HC or CH₄)	Oxygen(O ₂)	Carbon monoxide(CO)	Hydrogen sulfide(H ₂ S)	
Detection principle	New ceramic type	Electrochemical type			
Detection range (service range)	0~100%LEL	0~100%LEL 0~25.0 vol% (~40.0 vol%)		0~100.0ppm (~200.0ppm)	
1 digit	1%LEL	0.1vol%	1ppm	0.1ppm	
Gas alarm setpoint (can be set by user)	1st alarm : 10%LEL 2nd alarm : 25%LEL 3rd alarm : 50%LEL OVER alarm : 100%LEL	Lalarm : 19.5vol% LL alarm : 18.0vol% Halarm : 23.5vol% OVER alarm: 40.0vol%	1st alarm : 25ppm 2nd alarm : 50ppm 3rd alarm : 1200ppm TWA alarm : 25ppm STEL alarm : 200ppm OVER alarm : 2000ppm	1st alarm : 5.0ppm 2nd alarm : 30.0ppm 3rd alarm : 100.0ppm TWA alarm : 1.0ppm STEL alarm : 5.0ppm OVER alarm: 200.0ppm	

Standard accessories



Type list

TYPE	Detection gas
TYPE A	LEL, O2, H2S, CO
TYPE B	LEL, O_2 , H_2S
TYPE C	LEL, O ₂ , CO
TYPE CH	LEL, O ₂ , CO*
TYPE D	LEL, O ₂
TYPE E	O ₂ , H ₂ S
TYPE F	O ₂ , CO
TYPE FH	O ₂ , CO*
TYPE I	LEL, CO
TYPE IH	LEL, CO*
TYPE K	H_2S

 * CO sensor with reduced H_{2} interference