

Model Portable gas monitor GX-3R



World smallest & Lightest!!

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.

Weights just 100g!

Three-year sensor warranty

The sensors are covered by a three-year warranty.

*Annual inspection is required once a year.





Play the Promotional video from here.

Now on the website!

Active in various fields!



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

Tough design to withstand 7m drop, than 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	26 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.	

Type list

TYPE	Detection gas
TYPE A	LEL, O ₂ , H ₂ S, CO
TYPE B	LEL, O ₂ ,H ₂ S
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	H₂S

 $^{^{\}star}$ CO sensor with reduced H_{2} interference

Combustible conversion gas list

Conversion gas	Gas name	Calibration gas conversion		
Conversion gas	displayed	CH ₄	i-C ₄ H ₁₀	
Methane	CH ₄	_	×	
Isobutane	i-C ₄ H ₁₀	0	_	
Hydrogen	H ₂	0	0	
Methanol	CH₃OH	0	0	
Acetylene	C ₂ H ₂	0	0	
Ethylene	C ₂ H ₄	0	0	
Ethane	C ₂ H ₆	0	×	
Ethanol	C ₂ H ₅ OH	0	0	
Propylene	C ₃ H ₆	0	0	
Acetone	C₃H ₆ O	0	0	
Propane	C ₃ H ₈	0	×	
Butadiene	C ₄ H ₆	0	0	
Cyclopentane	C ₅ H ₁₀	0	0	
Benzene	C ₆ H ₆	0	0	
N-hexane	n-C ₆ H ₁₄	0	0	
Toluene	C7H8	0	0	
N-heptane	n-C7H16	0	0	
Xylene	C ₈ H ₁₀	0	0	
N-nonane	n-C9H20	0	0	
Ethyl acetate	EtAc	0	0	
Isopropyl alcohol	IPA	0	0	
Methyl ethyl ketone	MEK	0	0	
Methyl methacrylate	MMA	0	0	
Dimethyl ether	DME	0	0	
Methyl isobutyl ketone	MIBK	0	0	
Tetrahydrofuran	THF	0	0	

Wide range of safety functions

Combustible gas conversion function

Eliminates the need for complex calculations. Allows direct readout of 26 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.

Optional accessories







3 Belt clip

5 Protective film



7 Charging cradle





Five-unit

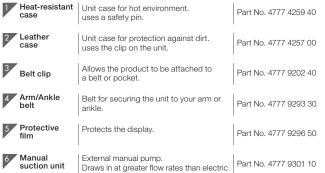


Data management program

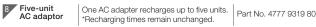




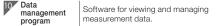




pump.	
Cradle for recharging the unit. Cradles can be interconnected.	Part No. 4777 21



Calibration adapter Adapter for connecting the gas sampling bag to the main unit for calibration. Part No. 4777 9311 00



Part No. 9811 0870 60

Pump unit RP-3R

An external electric pump. Allows use for suction sampling.





Specifications			
Model	RP-3R		
Suction flow rate	High mode: Approx. 0.5 L/min Low mode: Approx. 0.35 L/min		
Battery	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 TIIS Ex ia IIC T4 Ga ATEX II1G Ex ia IIC T4 Ga IECEx Ex ia IIC T4 Ga		
Structure	Drip-proof and dust-proof performances compliant to IP67 level		
Dimensions / Weight	Approx. 82mm (W) × 96mm (H) × 29mm (D) / Approx. 120g		
Optional accessories	Float-type gas sampling tube Filters (set of 10) Meshes (set of 10)		

^{*} Cannot be connected to other models GX-2009, GX-3R Pro and others.

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 to 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. 130mm (W) \times 110mm (H) \times 250mm (D) / Approx. 810g
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

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

2 Connected 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.

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





* For details, see the GX-3R Pro catalog.



Specifications

Model	GX-3R		
Detection method	Diffusion type (Changeable to sampling type by attaching RP-3R)		
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. 95dB (30cm)		
Data logger function	Maximum number of items: 3,600 Interval: 5 minutes (adjustable) Communication system: IrDA		
Explosion-proof class	Intrinsically safe explosion-proof construction TIIS Ex ia IIC T4 Ga ATEX II1G Ex da ia IIC T4 Ga / IM1 Ex da ia I Ma (With combustible gas sensor) II1G Ex ia IIC T4 Ga / IM1 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)		
Protection level	Equivalent to IP66/68 (2 m, 1 h)		
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∼+60°C(no sudden changes), 0∼95%RH (non-condensation)		
External dimensions/weight	Approx. 58mm (W) \times 65mm (H) \times 26mm (D) (excluding protrusions) / Approx.100g		

^{*1} Varies depending on sensor type installed. Please contact Riken Keiki for more information.

Detection gas

Detection target gas	Combustible gas (HC or CH ₄)	Oxygen	Carbon monoxide	Hydrogen sulfide
Detection principle	New ceramic type	Electrochemical type		
Detection range (service range)	0~100%LEL	0~25.0 vol% (~40.0 vol%)	0~500ppm (~2,000ppm)	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 : 20%LEL 3rd alarm : 50%LEL OVER alarm: 100%LEL	L alarm : 19.5vol% LL alarm : 18.0vol% H alarm : 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

Protective cover



Appearance when attached



Protective cover (Part No. 4777 4161 10)





EU plug (Part No. 2594 0933 60)

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^{*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)