

Model Portable gas monitor GX-3R



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.

Weights just 100g!

5-year warranty

The instrument and sensors have 5-year warranty*.

*Option.

175

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.

Now on the website!

RIKEN KEIKI Co., Ltd.

Active in various fields!



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.

Combustible conversion gas list

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 acce <mark>ssories</mark>		
Five-component detection	⇒ We recommend the GX-3R Pro model.		
Dry battery power	⇒ We recommend the GX-3R Pro model.		
Bluetooth	⇒ We recommend the GX-3R Pro model.		

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	
Methanol	CH₃OH	0	0
Acetylene	C ₂ H ₂	0	0
Ethylene	C ₂ H ₄	0	
Ethane	C ₂ H ₆		×
Ethanol	C ₂ H ₅ OH		0
Propylene	C ₃ H ₆	0	0
Acetone	C ₃ H ₆ O	0	
Propane	C ₃ H ₈	0	×
Butadiene	C ₄ H ₆		0
Cyclopentane	C ₅ H ₁₀	0	0

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Conversion gas	Gas name	Calibration gas conversion	
Conversion gas	displayed	CH ₄	i-C ₄ H ₁₀
Benzene	C ₆ H ₆	0	0
n-Hexane	n-C ₆ H ₁₄	0	0
Toluene	C ₇ H ₈	0	0
n-Heptane	n-C ₇ H ₁₆	0	0
Xylene	C ₈ H ₁₀	0	0
n-Nonane	n-C ₉ H ₂₀	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
n-Pentane	n-C ₅ H ₁₂	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&H ₂ S	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!
	02	CO H2S	CO(-H ₂)

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.

Optional accessories



*not explosion-proof



3 Belt clip



Manual suction





4 Arm/Ankle belt

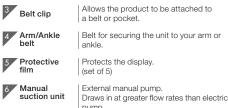












Uses a safety pin.

Uses the clip on the unit









Charging cradle

Leather

Cradle for recharging the unit.
Cradles can be interconnected.

Part No. 4777 9305 00 Part No. BC-3R 00



One AC adapter recharges up to five units. *Recharging times remain unchanged.

(with 22.5cm cable) Part No. 4777 9329 70 (with 60cm cable) Part No. 4777 9319 80

(with 8m float-type tube)

Part No. 4777 9304 20

(with 30m weighted tube)

(with 120cm cable) Part No. 4777 9333 20

9 Calibration adapter

Adapter for applying gas to GX-3R during bump test and calibration.
(with outlet nipple and rubber seal) Software for viewing and managing

Part No. 4777 9311 00

Part No. 9811 0870 60







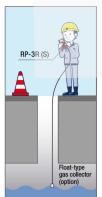
Pump unit RP-3R(S)

An external electric pump. Allows use for suction sampling





Float-type gas collector



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		
	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)		

DD 2D (C)

Docking station SDM-3R

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



Specifications

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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

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.

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

Model GX-3R Pro



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

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



Specifications

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)		

Detection gas

Detection target gas	Combustible gas (HC or CH ₄)	Oxygen(O ₂)	Carbon monoxide(CO)	Hydrogen sulfide(H ₂ S)
Detection principle	New ceramic type		Electrochemical type	
Detection range (service range)	0~10 <mark>0%LEL</mark>	0~25.0 vol% (~40.0 vol%)	0~500ppm (~2000ppm)	0~100.0ppm (~200.0ppm)
1 di <mark>git</mark>	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	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





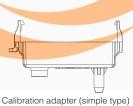
Appearance when attached



Protective cover (Part No. 4777 4161 10)







(Part No. 4777 9369 30)



EU plug (Part No. 2594 0933 60)

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

^{*} CO sensor with reduced H₂ interference

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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)
 *3 Applicable standards and certifications vary depending on the specifications of the gas detector. Please specify at the time of purchase.