😵 Bluetooth®

mounted!



Model Portable gas monitor GX-3R PCO



🛞 Bluetooth

Allows fast and accurate information sharing in emergencies.

Three-year sensor warranty The sensors are covered by a three-year warranty. *Annual inspection is required once a year.

Up to 5 gases can be detected Detects carbon dioxide and sulfur dioxide in addition to combustible gases, O₂, H₂S, and CO.

Intrinsically safe explosion-proof construction Water and dust resistant, IP66/68 Robust design (Withstands 7m drop)



Play the Promotional video from here.

RIKEN KEIKI Co., Ltd.



Multi-function! GX-3R Pro features

Connected with Bluetooth

Allows communication with smartphones or tablets using the dedicated app iOS and Android. Allows rapid notification of emergency situations.

Up to 5 gases can be detected!

Detects carbon dioxide and sulfur dioxide in addition to combustible gases, O₂, H₂S, and CO. Allows selection to suit requirements.

Selectable battery type

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

Supports 11 languages

Japanese/English/French/Spanish/Portuguese/German/Italian/ Russian/Korean/Chinese (Simplified & Traditional)

Full-dot display easy to see

Fine dot display for clearer and more various indications.

Combustible conversion gas list

Conversion gas	Gas name displayed	Calibration g	as conversion
Conversion gas	Gas name 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_2H_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	C ₃ H ₆ O	0	0
Propane	C ₃ H ₈	0	×
Butadiene	C ₄ H ₆	0	0
Cyclopentane	C ₅ H ₁₀	0	0

Rechargeable	battery unit	Dry batt	ery unit
OFF		ON	ound
Conversion gas	Gas name displayed	-	as conversion
		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-C7H16	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

😵 Bluetooth°

CO

OK!

or

SO₂

HC or CH4

02

Motion sensor equipped

Man down alarm

Monitors wearer movement and issues alarm if no movement is detected within preset time.

Panic alarm

Lets user issue alarm manually to notify others in emergency. (Tap the unit twice.)



Screen display inversion

Automatically inverts the display by 180 degrees depending on the orientation of the product. This helps reduce mistakes in reading numerical values.





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.

Optional accessories

Heat-resi case *not explos

Arm/Ankl





Charging



Data mar program



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.

sistant	² Leather case	3 Belt clip	Model		SP Pro
kle belt	⁵ Protective film	⁶ Manual suction			
	1 2 20 1 1	unit P	Heat-resistant case	Unit case for hot environment. uses a safety pin.	Part No. 4777 4260 80
		Sampling	Leather case	Unit case for protection against dirt. uses the clip on the unit.	Part No. 4777 4258 70
		Probe *Sampling probe not included.	Belt clip	Allows the product to be attached to a belt or pocket.	Part No. 4777 9202 40
ig cradle	⁸ Five-unit AC adaptor	⁹ Calibration adapter ⁴	Arm/Ankle belt	Belt for securing the unit to your arm or ankle.	Part No. 4777 9293 30
		5	Protective film	Protects the display.	Part No. 4777 9296 50
			Manual suction unit	External manual pump. Draws in at greater flow rates than electric pump.	Part No. 4777 9298 00
			Charging cradle	Cradle for recharging the unit. Cradles can be interconnected.	Part No. 4777 21
anagement n		8	Five-unit AC adaptor	One AC adapter recharges up to five units. *Recharging times remain unchanged.	Part No. 4777 9319 80
-		9	Calibration adapter	Adapter for connecting the gas sampling bag to the main unit for calibration.	Part No. 4777 9312 70
(D)		10	Data management program	Software for viewing and managing measurement data.	Part No. 9811 0870 60

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, LAN cap, USB cap

An external electric pump. Allows use for suction sampling.

Pump unit RP-3R (Pro)



Specifications	
Model	RP-3R(Pro)
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. 82 mm (W) \times 96 mm (H) \times 29 mm (D)/ Approx. 120 g
Optional accessories	Float-type gas sampling tube Filters (set of 10) Meshes (set of 10)

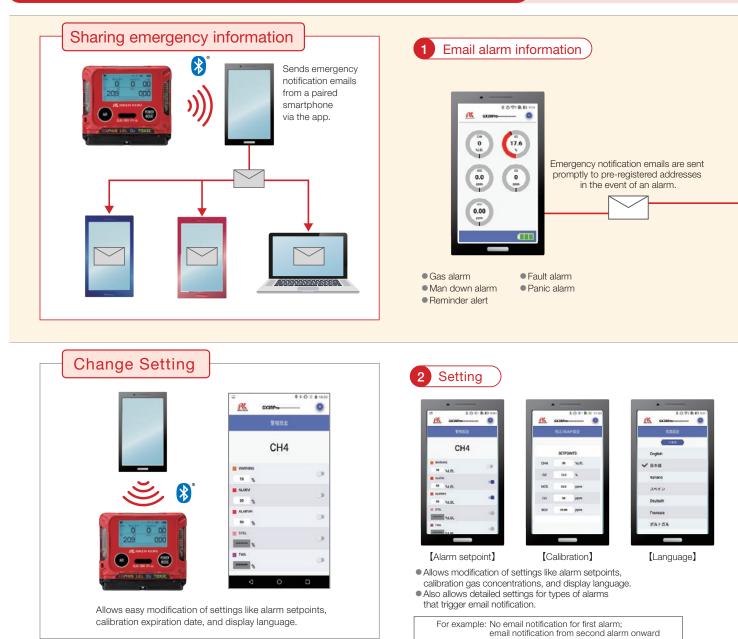
* Cannot be connected to other models GX-2009, GX-3R Pro and other



The GX-3R Pro can communicate with smartphones and tablets via Bluetooth. Allows alarms to be issued to remote locations in real time to notify emergency situations using the dedicated RK Link app. Also allows the main unit's settings to be altered. Download the free RK Link app from Google Play or Apple Store.



Features available by connecting GX-3R Pro with RK Link









Email text (sample)

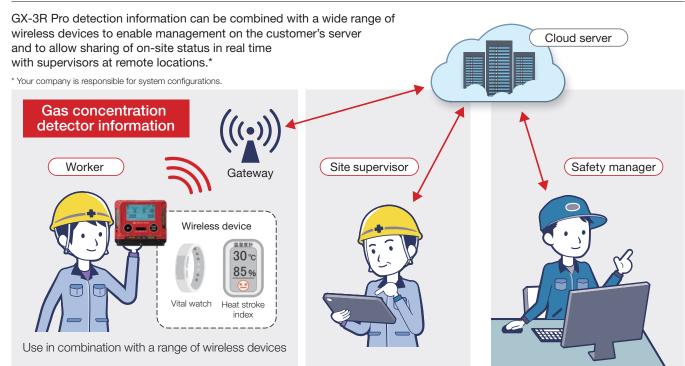
*May not be available due to radio wave conditions.

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Other features available by Bluetooth



Awareness of individual status, environment, and location improves safety management.



FAQ

Pairing	
How long is the pairing standby time?	5 minutes. After 5 minutes, Bluetooth needs to be turned on again to resume standby.
What happens when a device is paired?	S changes from blinking to steady illumination.
What happens when device pairing is lost?	blinks and the product goes to standby. No audible alarm is issued.
Are unpaired connections possible?	No.
Communication	
What's the communication system (data access method)?	Read and Write.
What's the GATT profile?	Original.
What's the communication interval?	At least 1 second.
Main unit	
What's the continuous operating time when using BLE?	Normal mode: 25 hours Long-life battery mode: 40 hours * Continuous operating time does not change when using BLE.
Is the product GPS-equipped?	No. Acquire location information from a smartphone or beacons.
Others	
Can details of the communication specifications be disclosed?	Yes, with the conclusion of a nondisclosure agreement.
Do the product communication specifications need to be altered for connecting with a system?	No. Perform steps to ensure compatibility on the system side.
What are the costs of connecting with a system?	No costs are incurred. However, additional fees may apply if such connection requires changes in product specifications.

Specifications

Model	GX-3R Pro
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
Panic alarm	Two levels: Prealarm and main alarm (after 5-second prealarm) Reset operation: Self-latching
Man down alarm	Three levels: Prealarm 1 (60 seconds), prealarm 2 (75 seconds), main alarm (90 seconds) Reset operation: Self-latching
Display	LCD digital (full-dot), backlight
Displays	Operation status, clock, battery level, temperature, peak reading, calibration notification
Buzzer volume	Approx. 95 dB (30 cm)
Languages	Japanese/English/French/Spanish/Portuguese/German/Italian/Russian/Korean/Chinese (simplified/traditional)
Bluetooth	Bluetooth 4.2 (Bluetooth Low Energy)
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) or dry battery unit (AAA alkaline battery \times 2)
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)
Explosion-proof class	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 da ia I Ma (No combustible gas sensor) Ex ia IIC T4 Ga / Ex ia I Ma (No 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)
External dimensions/ weight	With rechargeable battery unit: Approx. 73mm(W)×65mm(H)×26mm(D) (excluding protrusions) / Approx. 120 g With dry battery unit: Approx. 73mm(W)×65mm(H)×34mm(D) (excluding protrusions) / Approx. 140 g



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

Detection gas

Detection target gas	Combustible gas (HC or CH ₄)	Oxygen	Carbon monoxide	Hydrogen sulfide	Sulfur dioxide (SO2)	Carbon die	oxide (CO ₂)
Detection principle	New ceramic type		Electroche	emical type		Infrare	d type
Detection range (service range)	0~100%LEI	0~25.0vol% (~40.0vol%)	0~500ppm (~2000ppm)	0~100.0ppm (~200.0ppm)	0~20.00ppm (~100.00ppm)	0~5.00vol% (~10.00vol%)	0~10,000ppm
1 digit	1 %LEL	0.1 vol%	1 ppm	0.1 ppm	0.05ppm	0.01 vol%	20 ppm
Gas alarm setpoint (can be set by user)	3rd alarm : 50%LEL	LL alarm : 18.0vol% H alarm : 23.5vol% OVER alarm : 40.0vol%	2nd alarm : 50ppm 3rd alarm : 1200ppm TWA alarm : 25ppm STEL alarm : 200ppm	2nd alarm : 30.0ppm 3rd alarm : 100.0ppm TWA alarm : 1.0ppm	3rd alarm :100.00ppm TWA alarm : 2.00ppm STEL alarm : 5.00ppm	2nd alarm : 3.00vol% 3rd alarm : 3.00vol% OVER alarm : 0.50vol% STEL alarm : 3.00vol%	2nd alarm : 5000ppm 3rd alarm : 5000ppm TWA alarm : 5000ppm

Standard accessories





EU plug (Part No. 2594 0933 60)

Ordering guide

	Code	Selection	Sensor model	Detection range	
Code ①	н	Combustible gas (HC) sensor	NCR-6309	0~100%LEL	
-	М	Combustible gas (CH ₄) sensor	NCR-6309	0~100%LEL	
	0	No sensor	—	—	
elect whethe	r oxygen	sensor is required.			
	Code	Selection	Sensor model	Detection range	
Code 2	1	Oxygen (O2) sensor	ESR-X13P	0~25.0vol%(~40.0vol%)	
	0	No sensor	_	_	
elect one ser	nsor (dete	ection gas type) to be installed.			
	Code	Selection	Sensor model	Detection range	
	E1	Carbon monoxide/ hydrogen sulfide (CO/H₂S) sensor	ESR-A1DP	0~500ppm(~2000ppm) 0~100.0ppm(~200.0ppm)	
Code 34	E2	Carbon monoxide (CO) sensor *H ₂ interference reduction	ESR-A1CP	0~500ppm(~2000ppm)	
	E4	Hydrogen sulfide (H ₂ S) sensor	ESR-A13i	0~100.0ppm(~200.0ppm)	
	E5	Carbon monoxide (CO) sensor	ESR-A13P	0~500ppm(~2000ppm)	
	00	No sensor	—	-	
	Code E3	Selection Sulfur dioxide (SO ₂) sensor	Sensor model ESR-A13D	Detection range 0~20.00ppm(~100.00ppm)	
	E4	Hydrogen sulfide (H ₂ S) sensor	ESR-A13i	0~100.0ppm(~200.0ppm)	
Code 56	E5	Carbon monoxide (CO) sensor	ESR-A13P	0~500ppm(~2000ppm)	
	D1	Carbon dioxide (CO2) <vol%> sensor</vol%>	IRR-0409	0~5.00vol%(~10.00vol%)	
	D2	Carbon dioxide (CO2) <ppm> sensor</ppm>	IRR-0433	0~10000ppm	
	00	No sensor	_	_	
		Note Two identical sensor	s cannot be selected.		
elect the bat	tery type.		Select Bluet	ooth compatibility.	
	Code	Selection Model	(Code Selection Model	
Code 7	L	Rechargeable BUL-3R lithium ion battery	Code 8	1Bluetooth support0Bluetooth unsupported	
	D	Alkaline battery BUD-3R	· · -		
				be used in country which achieved radio certifica be available due to radio wave conditions.	
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		at-resistant case	Charging cradle		
		ather case	Five-unit AC ada	······	
	••••••	lt clip	Calibration adapt	ter	
	An	m/ankle belt	Data manageme	nt program	
			••••••		
		otective film	Pump unit RP-3F	R(Pro)	

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