😵 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.

2

Up to 5 gases can be detected!

Detects carbon dioxide and sulfur dioxide in addition to combustible gases, $O_{2},\,H_2S,\,and\,CO.$ Allows selection to suit requirements.

Selectable battery type Runs on either dry cell or recharge

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

1100	OK!	0.5.1	1070		
Rechargeable	battery unit	Dry batte	ery unit		
OFF	2:34 40 \$ (III) ROUND	ON LCD BACKGR	OUND		
Q		Calibration gas conversion			
Conversion gas	Gas name 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-C7H16	0	\bigcirc		
Xylene			\bigcirc		
N-nonane	C ₈ H ₁₀	0	0		
Ethyl acetate	C ₈ H ₁₀ n-C ₉ H ₂₀	0	0		
LITYTACEIAIE		-	0		
Isopropyl alcohol	n-C ₉ H ₂₀	Ō	Õ		
	n-C ₉ H ₂₀ EtAc	Ō	Õ		

😵 Bluetooth°

CO

H₂S

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

Methyl methacrylate Dimethyl ether

Methyl isobutyl ketone

Tetrahydrofuran

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

MMA

DME

MIBK

THF







 \cap

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)		

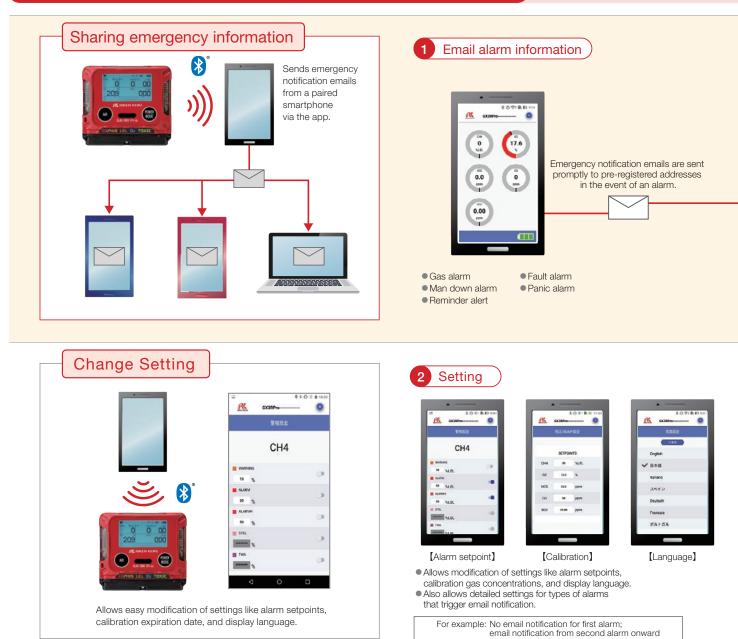
* Cannot be connected to other models GX-2009, GX-3R Pro and other



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)

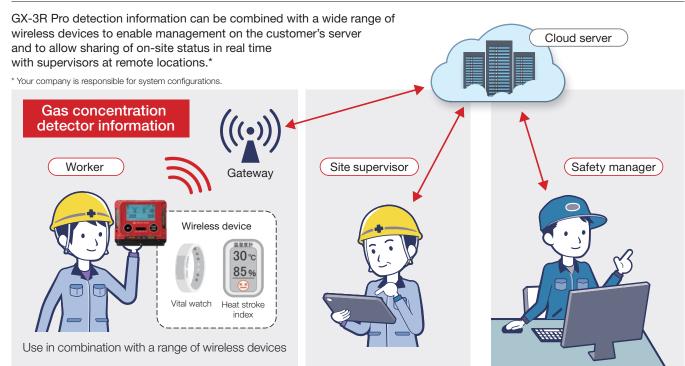
*May not be available due to radio wave conditions.

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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 mod	del Detection range
	Н	Combustible gas (HC) sensor	NCR-6309	9 0~100%LEL
Code ①	М	Combustible gas (CH4) sensor	NCR-6309	9 0~100%LEL
	0	No sensor	-	-
Select whethe	r oxvaen	sensor is required.		
	Code	Selection	Sensor mo	del Detection range
Code 2	1	Oxygen (O ₂) sensor	ESR-X13F	
	0	No sensor	_	_
Calact and car	oor (dat	ection gas type) to be install	ad	
Select one sel	Code	Selection	Sensor mod	del Detection range
	E1	Carbon monoxide/	ESR-A1D	P 0~500ppm(~2000ppm)
Code 34	E2	hydrogen sulfide (CO/H ₂ S) senso Carbon monoxide (CO) sensor		0~100.0ppm(~200.0ppm)
	E2 E4	*H ₂ interference reduction	ESR-A1CI ESR-A13i	· · · · · · · · · · · · · · · · · · ·
	E4 E5	Hydrogen sulfide (H ₂ S) sensor Carbon monoxide (CO) sensor	ESR-A13I ESR-A13F	· · · · · · · · · · · · · · · · · · ·
	00	No sensor		
Select one ser	nsor (dete	ection gas type) to be installe	ed.	
	Code	Selection	Sensor mo	del Detection range
	E3	Sulfur dioxide (SO2) sensor	ESR-A13	v
	E4	Hydrogen sulfide (H ₂ S) sensor	ESR-A13i	· · · · · · · · · · · · · · · · · · ·
Code (5)6)	E5	Carbon monoxide (CO) sensor	ESR-A13F	
00000000	D1	Carbon dioxide (CO ₂) <vol%> se</vol%>		
	D2	Carbon dioxide (CO ₂) <ppm> ser</ppm>		0~10000ppm
	00	No sensor	_	—
		Note Two identical	I sensors cannot be selec	ted.
Select the bat	tery type.		Selec	et Bluetooth compatibility.
	Code	Selection Model		Code Selection Model
Code $\widehat{\mathcal{T}}$	L	Rechargeable BUL-3R	Code (8)	1 Bluetooth support -
	D	Alkaline battery BUD-3R		0 Bluetooth unsupported —
I				*Can only be used in country which achieved radio certificatio *May not be available due to radio wave conditions.
boxes on t		odes in the corresponding	B [] ① ②	
Optional acces	sories lis	st		
Optional acces		st nat-resistant case	Charging	g cradle
Optional acces	He			g cradle t AC adaptor
Optional acces	He	eat-resistant case	Five-unit	
Optional acces	He Lea Be	eat-resistant case ather case	Five-unit Calibrati	t AC adaptor on adapter
Optional acces	He Le: Be Arr	eat-resistant case ather case It clip m/ankle belt	Five-unit Calibrati Data ma	t AC adaptor on adapter nagement program
Optional acces	He Lea Be Arr	eat-resistant case ather case It clip	Five-unit Calibrati Data ma Pump ur	t AC adaptor on adapter

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