

Portable gas monitor

1. Among world's smallest and lightest

Offers functionality and performance equal to or better than previous models in a compact form weighing just 45 g.

2. Three-year sensor warranty

Reduced running costs by replacing sensors once every three years.

*One-year sensor warranty for galvanic cell type

3. Newly developed R sensor installed for improved performance

Incorporates R sensor with outstanding durability and performance allowing use over a wide range of temperatures.

First Japanese manufactured model to include CO & O₂ dual sensor
Single sensor simultaneously detects two different gases.

Model GW-3

Certificate of conformity for electrical equipment used in potentially explosive atmospheres (pending)

ATEX/IECEx explosion-proof certification

Protection level equivalent to IP66/68



<Gas specifications list>

<p>Model GW-3(O₂)</p> <p>O₂ (Galvanic cell type)</p> 	<p>Model GW-3(OX)</p> <p>O₂ (Electrochemical type)</p> 
<p>Model GW-3(CO)</p> <p>CO</p> 	<p>Model GW-3(HS)</p> <p>H₂S</p> 
<p>Model GW-3(C-)</p> <p>CO (Reduced H₂ interference)</p> 	<p>Model GW-3(CX)</p> <p>CO & O₂</p> 



Worn on arm (band type)



Worn on wrist (wristwatch type)

Specifications

<Common specifications>

Detection method	Diffusion type
Alarm type	Gas alarms: Three-step alarms, STEL alarm, total or TWA alarm(*1), OVER alarm Fault alarms: Sensor connection/disconnection, low battery level, calibration failure, clock abnormality, system abnormality, M OVER
Alarm type	Auto-reset or self-latching(*2)
Alarm pattern	Lamp flashing, intermittent buzzer sounding, gas concentration readout blinking, vibration
Power source	CR2450 coin type lithium ion battery
Protection level	Equivalent to IP66/68 (2 m, 1 h)
Explosion-proof construction	Intrinsically safe explosion-proof construction (Ex ia IIC T4 Ga)
Certifications	ATEX, IECEx (Certificate of conformity for electrical equipment used in potentially explosive atmospheres pending)
External dimensions	Approx. 63 mm (W) × 42 mm (H) × 22 mm (D) (excluding projections)
Weight	Approx. 45 g
Functions	Data logger, vibration, STEL alarm, total or TWA alarm(*1), quick calibration, peak value display, temperature display

<Individual model specifications>

Model	GW-3 (O2)	GW-3 (OX)	GW-3 (CO)	GW-3 (HS)	GW-3 (C-)	GW-3 (CX)	
Detection target gas	O ₂	O ₂	CO	H ₂ S	CO (Reduced H ₂ interference)	CO	O ₂
Detection principle	Galvanic cell type		Electrochemical type				
Detection range (1 digit)	0 to 40 vol% (0.1)	0 to 40 vol% (0.1)	0 to 300 ppm (1) 300 to 2,000 (10)	0 to 30 ppm (0.1) 30 to 200 (1)	0 to 300 ppm (1) 300 to 2,000 (10)	0 to 300 ppm (1) 300 to 2,000 (10)	0 to 40 vol% (0.1)
Service range (domestic models)	25-40 vol%	25-40 vol%	300-2,000 ppm	30-200 ppm	300-2,000 ppm	300-2,000 ppm	25-40 vol%
Service range (overseas models)	25-40 vol%	25-40 vol%	300-2,000 ppm	100-200 ppm	300-2,000 ppm	300-2,000 ppm	25-40 vol%
Alarm setpoints (domestic models)	L: 18.0 vol% LL: 18.0 vol% H: 25.0 vol%	L: 18.0 vol% LL: 18.0 vol% H: 25.0 vol%	1st: 50 ppm 2nd: 150 ppm 3rd: 150 ppm Total: 150 ppm STEL: 200 ppm	1st: 1 ppm 2nd: 10 ppm 3rd: 10 ppm TWA: 1 ppm STEL: 5 ppm	1st: 50 ppm 2nd: 150 ppm 3rd: 150 ppm Total: 150 ppm STEL: 200 ppm	1st: 50 ppm 2nd: 150 ppm 3rd: 150 ppm Total: 150 ppm STEL: 200 ppm	L: 18.0 vol% LL: 18.0 vol% H: 25.0 vol%
Alarm setpoints (overseas models)	L: 18.0 vol% LL: 18.0 vol% H: 25.0 vol%	L: 18.0 vol% LL: 18.0 vol% H: 25.0 vol%	1st: 25 ppm 2nd: 50 ppm 3rd: 1,200 ppm TWA: 25 ppm STEL: 200 ppm	1st: 5 ppm 2nd: 30 ppm 3rd: 100 ppm TWA: 1 ppm STEL: 5 ppm	1st: 25 ppm 2nd: 50 ppm 3rd: 1,200 ppm TWA: 25 ppm STEL: 200 ppm	1st: 25 ppm 2nd: 50 ppm 3rd: 1,200 ppm TWA: 25 ppm STEL: 200 ppm	L: 18.0 vol% LL: 18.0 vol% H: 25.0 vol%
Operating temperature range	-20 °C to +50 °C (no sudden changes)		-20 °C to +50 °C (no sudden changes) (Approx. 15-minute temporary use environment: -20 °C to +60 °C [no sudden changes])				
Operating humidity range	10 to 90 %RH (no condensation)		10 to 90 %RH (no condensation) (Approx. 15-minute temporary use environment: 0 to 95 %RH [no condensation])				
Continuous operating time	Approx. 4,000 hours	Approx. 2,000 hours	Approx. 4,000 hours	Approx. 4,000 hours	Approx. 2,500 hours	Approx. 2,000 hours	

*1 GW-3 (CO), GW-3 (C-), GW-3 (CX) domestic models: Total alarm; Other: TWA alarm

*2 GW-3 (CO), GW-3 (C-), GW-3 (CX) domestic models: Auto-reset; Other: Self-latching

Accessories

- CR2450 coin type lithium ion battery (× 1)
- Spring pins (× 2) (used to mount accessories on to the rear face)
- Wristwatch belt (× 1) (domestic models only)
- Belt clip (× 1) (domestic models only)
- Alligator clip (× 1) (overseas models only)

Optional items (sold separately)

- Wristwatch belt (× 1)
- Belt clip (× 1)
- Alligator clip (× 1)
- Heat-resistant case
- Dust filter
- CF-1821 filter (for CO sensor)
- CF-A13i-1 humidity control filter (for H₂S sensor)
- Calibration adapter
- Leather case
- Band

RIKEN KEIKI Co., Ltd.

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★ Your direct contact:



WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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