

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

ATEX/IECEx explosion-proof certification

Japan EX(pending)

Protection level equivalent to IP66/68(2m,1h)



<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
Buzzer volume	Above 80 dB / 30 cm
Power source	CR2450 coin type lithium ion battery
Explosion-proof construction	Intrinsically safe explosion-proof construction (Ex ia IIC T4 Ga)
Certifications	ATEX, IECEx (Japan EX pending)
Protection level	Equivalent to IP66/68 (2 m, 1 h)
External dimensions / Weight	Approx. 63 mm (W) × 42 mm (H) × 22 mm (D) (excluding projections) / 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-) CO (Reduced H ₂ interference)	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) (Other domestic models than GW-3(CX))
- Belt clip (× 1) (Other domestic models than GW-3(CX))
- Heat-resistant case (Only domestic GW-3 (CX) model)
- 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

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