

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

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