Personal single gas monitor

RIKEN KEIKI

MODEL: 03 SERIES

ATEX intrinsic safe design

Explosion proof: Ⅱ1 G Ex ia ⅡC T4/T3 Ga

Ⅰ M1 Ex ia Ⅰ Ma

Ingress protection rating: IP 67

Model GP-03

Combustible gas detection

Interchangeable battery

AAA(2) Alkaline battery is standard power source, Ni-MH battery can be installed as optional choice.

Comfortable wearable design

Well-balanced weight and shape to ensure comfort wearing. Alligator clip prevents the unit from dropping.

Sensor, filter, and battery are replaceable. Robust waterproof design and Intrinsically Safety rating make the 03 series the ideal gas monitor for many hazardous applications!

Model OX-03

Oxygen detection

Model HS-03

Hydrogen sulfide detection

Model CO-03

Carbon monoxide detection

Application

- LEL monitoring for gas pipeline installations.
- LEL & CO monitoring while checking or installing gas meters.
- O2 & H2S monitoring while working in tanks, pits, or other confined spaces.
- CO monitoring in iron and steel plants.
- H2S monitoring around oil fields, refineries, petrochemical plants.
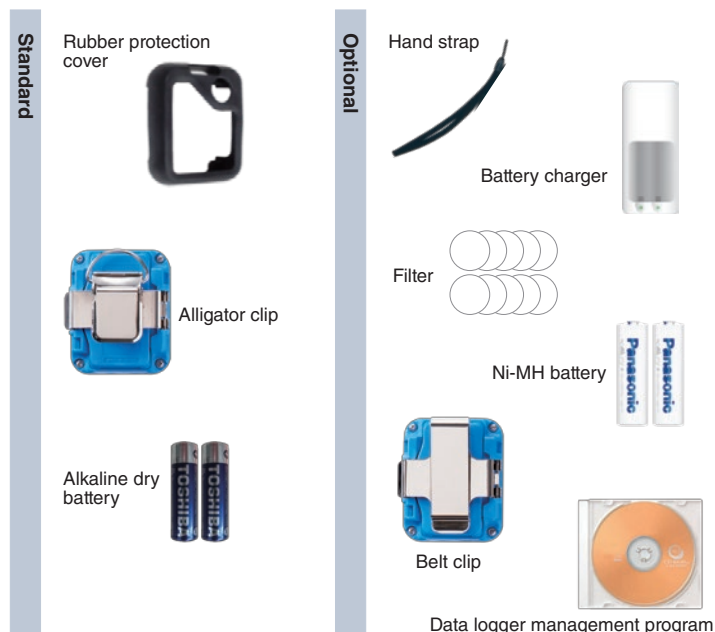
RIKEN KEIKI Co.,Ltd.

Specifications

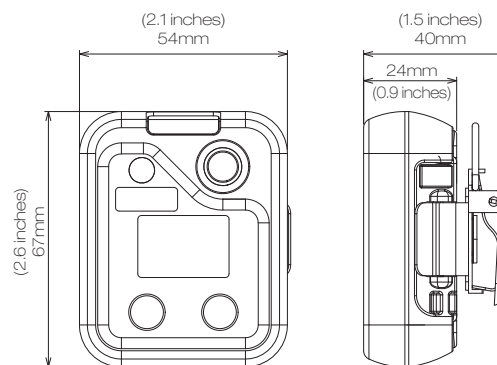| Model	GP-03	OX-03	HS-03	CO-03
Gas detected	Combustible gases	Oxygen	Hydrogen sulfide	Carbon monoxide
Detection principle	New ceramic catalytic	Galvanic cell	Electrochemical	
Detection range	0 ~ 100%LEL	0 ~ 40.0%	0 ~ 100.0ppm	0 ~ 500ppm
Increments	1%LEL	0.1%	0.5ppm	1ppm
Preset alarms	1st : 10%LEL 2nd : 50%LEL OVER : 100%LEL	1st : 19.5% 2nd : 23.5% OVER : 40.0%	1st : 5.0ppm 2nd : 30.0ppm STEL : 15.0ppm TWA : 10.0ppm OVER : 100.0ppm	1st : 25ppm 2nd : 50ppm STEL : 200ppm TWA : 25ppm OVER : 500ppm
Types of alarm[*1]	Gas alarms: 2 preset alarms, Over scale alarm, STEL, TWA Trouble alarms: Sensor disconnection, Low battery, Calibration error, Clock error, System error			
Alarm method	Latching	Latching	Latching	Latching
Display of alarm	Gas alarms: Flashing LEDs, Buzzer, Flashing gas value, Vibration Trouble alarms: Flashing LEDs, continuous buzzer, display of error message			
Operating temp. & humidity	-20 ~ +50°C [-4°F ~ 122°F] 0 ~ 90%RH (Non-condensing)	-20 ~ +50°C [-4°F ~ 122°F] 0 ~ 95%RH (Non-condensing)	-20 ~ +50°C [-4°F ~ 122°F] 16 ~ 85%RH (Non-condensing)	
Power source	2 AAA size Alkaline battery (Optional AAA size Ni-MH battery [Eneloop])			
Continuous operation[*2]	Alkaline battery : Approx.35 h Ni-MH battery : Approx.30 h	Alkaline battery : Approx.3000 h Ni-MH battery : Approx.2000 h		
Response time	90% response within 30 sec	90% response within 20 sec	90% response within 30 sec	
Ingress proof rating	IP 67			
Explosion proof class[*3]	II1 G Ex ia IIC T4/T3 Ga, I M1 Ex ia I Ma			
Approvals	IECEx, ATEX			
Dimensions & Weight	Approx. 54(W) × 67(H) × 24(D) mm [2.1(W) × 2.6(H) × 0.9(D) inches] with rubber protection cover, 80g [2.8 ounces]			
Function	Manual LCD backlight (Automatically ON when alarming), Peak value, Data logging, Time, CAL alarm, BUMP alarm			

*1 STEL and TWA alarms are available on HS-03 and CO-03 only. *2 No alarm, no light at 25°C
*3 Applicable ignition temperature is T3 for the rechargeable battery type and T4 for the dry battery type.

Accessories

Standard

Rubber protection cover

Alligator clip

Alkaline dry battery

Optional

Hand strap

Battery charger

Filter

Ni-MH battery

Belt clip

Data logger management program

Outer dimensions

(2.1 inches) 54mm
(2.6 inches) 67mm
(1.5 inches) 40mm
24mm (0.9 inches)

Data logger download

★ **Distributed by:**

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