Portable gas monitors

1. Broad lineup featuring seven models

Supports a wide range of applications in all kinds of environments.
*LEL/CO$_2$/NH$_3$/Cl$_2$/NO$_2$/PH$_3$ models are scheduled to be added to the lineup one after another.

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 & O$_2$ dual sensor
Single sensor simultaneously detects two different gases.

Attached to breast pocket

Attached to belt

Model 04 Series

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

ATEX/IECEx explosion-proof certification (pending)

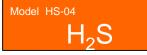Protection level equivalent to IP66/67 (currently under testing)

<Gas specifications list>

Model OX-04G (Galvanic cell type)	Model OX-04 (Electrochemical type)	Model CO-04	Model HS-04
O$_2$	O$_2$	CO	H$_2$S
Model CO-04(C-) (Reduced H$_2$ interference)	Model CX-04	Model SC-04	04 Series
CO	CO & O$_2$	SO$_2$	Other types

LEL/CO$_2$/NH$_3$/Cl$_2$/NO$_2$/PH$_3$
Six more gas specification types are scheduled to be added.

RIKEN KEIKI Co., Ltd.

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	AAA alkaline or Ni-MH (eneloop) batteries (×2)
Protection level	Equivalent to IP66/67 (currently under testing)
Explosion-proof construction	Intrinsically safe explosion-proof construction (Ex ia IIC T4 Ga) (pending)
Certifications	Certificate of conformity for electrical equipment used in potentially explosive atmospheres, ATEX, IECEx (pending)
External dimensions	Approx. 54 mm (W) × 67 mm (H) × 24 mm (D) (excluding projections)
Weight	Approx. 80 g
Functions	Data logger, vibration, STEL alarm, total or TWA alarm(*1), quick calibration, peak value display, temperature display

<Individual model specifications>

Model	OX-04G	OX-04	CO-04	HS-04	CO-04 (C-)	CX-04		SC-04
Detection target gas	O_2	O_2	CO	H_2S	CO (Reduced H_2 interference)	CO	O_2	SO_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 ppm (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)	0 to 100 ppm (0.05)
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%	20-100 ppm
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%	20-100 ppm
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%	1st: 2 ppm 2nd: 5 ppm 3rd: 5 ppm TWA: 2 ppm STEL: 5 ppm
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%	1st: 2 ppm 2nd: 5 ppm 3rd: 100 ppm TWA: 0.25 ppm STEL: 0.25 ppm
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: -40 °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(AAA alkaline)	Approx. 9,000 hours	Approx. 3,000 hours	Approx. 9,000 hours	Approx. 9,000 hours	Approx. 6,200 hours	Approx. 4,600 hours		Approx. 3,000 hours
Continuous operating time(Ni-MH batteries)	Approx. 6,000 hours	Approx. 2,000 hours	Approx. 6,000 hours	Approx. 6,000 hours	Approx. 4,200 hours	Approx. 3,000 hours		Approx. 2,000 hours

*1 CO-04, CO-04 (C-), CX-04 domestic models: Total alarm; Other: TWA alarm
*2 CO-04, CO-04 (C-), CX-04 domestic models: Auto-reset; Other: Self-latching

Accessories
- AAA alkaline or Ni-MH (eneloop) batteries (×2) (specified at time of order)
- Spring pins (×2) (used to mount accessories on to the rear face)
- Rubber protection cover (×1)
- Belt clip (×1)
- Alligator clip (×1) (overseas models only)

Optional items (sold separately)
- Alligator clip (×1)
- Helmet mounting clip (for CO sensor)
- Heat-resistant case
- Dust filter
- CF-1821 filter (for CO sensor)
- CF-A13i-1 humidity control filter (for H_2S sensor)
- H_2S removal filter (for SO_2 sensor)
- Calibration adapter
- Hand strap
- Belt

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