

RIKEN

SINGLE GAS PERSONAL MONITOR

CO, O₂, H₂S**CSA approved
JML approval***

Features

- 3 Gases to chose from CO, H₂S, or O₂
- Operates 3,000 hrs. on alkaline batteries
- Pocket size 35(W)×105(H)×20(D)mm
1.4"(W)×4.1"(H)×0.8"(D)
- Light weight 100g (3.5 ounces)
- Audible / visual / vibration alarms
- Automatic backlight during alarm
- Peak Hold (min/max values for O₂)
- Low battery alarm
- Impact and water resistant
- Intrinsically safe, CSA/US approved

*Japanese Ministry of Labour
The Industrial Safety Research Institution

Weighing only 100g (3.5 ounces)

Applications

- Hazardous Material
- Mining
- Refineries / Petrochemical
- Water / Wastewater Treatment
- Pharmaceuticals
- Utilities
- Chemical Plants
- Fire Services

The OX-01, HS-01, CO-01 models are personal single gas monitors designed for personal protection from oxygen deficiency, hydrogen sulfide, or carbon monoxide. Individuals need personal protection in hazardous areas at all times without adding extra bulky equipment, and this series can provide that kind of protection at an affordable price. Each model is controlled by a microprocessor for reliability and advanced capabilities. The OX-01, HS-01, or CO-01 can be operated continuously for up to 3,000 hours on 2 AAA size alkaline batteries and each weighs only 3.5 ounces. The HS-01 and CO-01 have 2 preset alarms that are user adjustable. Both of these models also include alarm points for STEL and TWA. All three models display peak values. The OX-01 model has low, high, and over alarm points for oxygen monitoring. Each version is equipped with visual, audible, and vibration alarm types as standard. The replacement sensors are inexpensive, easily field replaceable, have a life expectancy of 2 years, and are interchangeable with other RIKEN monitors such as the GX-2001 and GasWatch 2 models.

The OX-01, HS-01, CO-01 monitors are safe for use in hazardous locations, certified as intrinsically safe by CSA to U.S. and Canadian standards for Class I, Division 1, Groups A, B, C, and D (pending).

**RIKEN KEIKI**

SPECIFICATIONS FOR MODEL OX-01/HS-01/HS-01S/CO-01

Model Name	OX-01	CO-01	HS-01	HS-01S
Gas Detected	Oxygen (O2)	Carbon Monoxide (CO)	Hydrogen Sulfide (H2S)	Hydrogen Sulfide (H2S)
Detection Principle	Galvanic cell	Electro chemical	Electro chemical	Electro chemical
Sensor Type	OS - BM2	ES - 1821	ES - 1827	ES - 1827
Detection Range (Increments)	0 - 40% vol. (0.1% vol.)	0 - 500 ppm (1 ppm)	0 - 100 ppm (0.5 ppm)	0 - 100 ppm (0.5 ppm)
Alarm Set Points	Low 19.5% Vol. High 23.5% Vol. Over 40% Vol.	1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm	1st 10.0 ppm 2nd 30.0 ppm TWA 10.0 ppm STEL 15.0 ppm Over 100.0 ppm	1st 10.0 ppm 2nd 30.0 ppm TWA 10.0 ppm STEL 15.0 ppm Over 100.0 ppm
Alarm Types	Gas alarm : 2 gas alarms (1st and 2nd) and OVER alarm Trouble alarm : Sensor disconnection, low battery circuit failure, calibration range error			
Alarm Indication	Gas alarm : Flashing LED's, intermittent buzzer, flashing gas value, vibration Trouble alarm : Flashing LED's, intermittent buzzer, display of error message			
Gas Sampling	Diffusion			
Response Time	T90 in 30 seconds	T90 in 20 seconds	T90 in 30 seconds	T90 in 30 seconds
Accuracy	± 0.% 5vol.	± 5ppm (up to 150 ppm)	± 1.5ppm (up to 30 ppm)	± 1.5ppm (up to 30 ppm)
Power	Alkaline dry cell (2-AAA size)			
Continuous Operation	Alkaline dry cell: more than 3,000 hours (at 25°C, no backlight)			
Safety Rating	CSA classified, "C/US", as intrinsically safe. Class I, Division 1, Groups A, B, C and D.(pending) Performance to CSA C22.2 No.152 (pending)			
Dimension & Weight	35×105×20mm, (1.4"W×4.1"H×0.8"D) ; 100g (3.5 ounces)			
Display	7 - segment + symbol on digital LCD, auto backlighting during alarm			
Special Functions	• Manual backlight for LCD (automatically lit during alarm) • Peak hold			
Operating Temp. & Humidity	-20°C ~ +50°C ; Humidity below 90% RH (non-condensing)			- 40°C ~ +50°C ; Humidity below 90% RH (non-condensing)
Standard Accessories	• Rubber protective boots • Wrist strap • Alkaline batteries			
Optional Accessories	• Calibration cap (adapter) • Ni-Cad battery pack		• Belt clip • Charger	• Alligator clip
Warranty	One year material & workmanship			

● Specifications subject to change without notice.



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