

RIKEN

MODEL GX-2003

PERSONAL FOUR GAS MONITOR

With built-in sample drawing pump

CSA approved



■ Features

- Compact size weighs only 11 ounces
- Monitors Combustibles, O₂, CO, and H₂S
- 0 to 100% volume Methane versions available
- Autoranging display of % volume and % LEL
- Internal sample drawing pump
- Vibration, visual, and audible alarm types
- Automatic backlight during alarms
- Calibration reminder and lock out
- Ni-Cad or alkaline power source
- Battery pack direct charges in the instrument or separate from unit
- Alarm latching or non latching
- Up to 600 hours of datalogging with alarm trends
- Autocalibration or single calibration
- Alarm silence capable
- Fast charge in just 90 minutes

■ Applications

- Personal monitoring
- Confined spaces
- Refineries / petrochemical
- Utilities
- Chemical plants
- Hazardous material
- Water / wastewater treatment
- Fire services
- Mining

■ Description

Built around our high-quality micro-sensor technology, the GX-2003 is RIKEN's smallest personal 4-gas monitor with a built in sample pump. Weighing only 11 ounces, it has many standard features, which set the GX-2003 apart from the competition. For example, it can monitor the standard confined space gases (LEL combustibles, Oxygen deficiency, Carbon Monoxide, and Hydrogen Sulfide), however it can also measure 100% volume combustibles and automatically display either % LEL or % volume with its auto-ranging ability.

The GX-2003's large LCD display shows all 4 gas readings, battery level, current time, and will automatically backlight in alarm conditions. Each channel has 2 adjustable alarm levels in addition to TWA and STEL readings for Carbon Monoxide and Hydrogen Sulfide. The TWA and STEL readings are equipped with a lunch-break mode, which prevent the average readings from being reset when the unit is turned off. Standard alarm types include vibration, visual and audible alarms that can be set to latching or non-latching. Controlled by a microprocessor, the GX-2003 continuously checks itself for sensor connections, low battery, circuit trouble, low flow, and calibration errors. The GX-2003 can operate on either a Ni-Cad pack or 3 AA alkaline batteries. The batteries are simple to replace requiring no tools to access the battery compartment. The Ni-Cad battery pack can also receive a charge directly within the instrument or separately, allowing the unit to remain in service.

The GX-2003 is also equipped with datalogging with a sizable memory capacity of up to 600 hours of log time. With this much capacity, the GX-2003 can store 100 alarm events, 100 trouble events, the last 20 calibrations, and up to 8 alarm trends where data is collected automatically every 5 seconds for 30 minutes before and after an alarm occurs. Available for use with a calibration station that can simultaneously service up to 10 instruments.



95QR-007



97ER-005



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SPECIFICATIONS

Gas Detected	All Combustible Gases (Methane as standard)	% Volume Methane *	Oxygen (O ₂)	Hydrogen Sulfide (H ₂ S)	Carbon Monoxide (CO)
Detection Principle	Catalytic combustion	Thermal conductivity	Galvanic cell	Electro-chemical cell	Electro-chemical cell
Detection Range (Increments)	0 ~ 100% LEL	0 ~ 100% vol.	0 ~ 40.0% Vol	0 ~ 100 ppm	0 ~ 500 ppm
Sampling Method	Internal sample pump, flow rate 0.5 lpm				
Display	Digital LCD, Auto backlight during alarm				
Preset Alarms (User Adjustable)	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100%LEL	N / A	1st Low alarm 19.5% 2nd Low alarm 18.0% Over alarm 40.0%	1st alarm 10 ppm 2nd alarm 30.0 ppm TWA alarm 10 ppm STEL alarm 15 ppm Over alarm 100 ppm	1st alarm 25 ppm 2nd alarm 50 ppm TWA alarm 25 ppm STEL alarm 200 ppm Over alarm 500 ppm
Types of Alarms	Gas Alarm : flashing lights, intermittent buzzer, and vibration Trouble alarm : flashing lights, trouble displayed and vibration				
Alarm Method	Gas Alarm : 2 step alarm, STEL, TWA and OVER Trouble alarm : sensor connection, low battery, circuit trouble and calibration error				
Special Functions	Manual back light LCD (Automatic during alarm) STEL, TWA Peak hold Continuous display of current time Autocalibration or single calibration		Datalogging (up to 600 hours) Alarm trend data for last 8 alarms Direct charging in just 90 minutes Calibration reminder and lock out		
Operating Temp. & Humidity	-20°C ~ + 50°C (-4 to 122°F), 0 to 97% RH, non-condensing (splash resistant)				
Response Time	Within 30 seconds (T90)				
Continuous Operation	Ni-Cad battery : 10 hours fully charged (Without any alarm) Alkaline battery : 14 hours (Without any alarm)				
Power Source	Ni-Cad battery pack, direct or separate charge (Standard) 3 "AA" alkaline batteries (Option)				
Safety Design / Approvals	Intrinsically safe design, CSA, C / US approved (Pending, CSA file No.186718-2500028218)				
Dimension & Weight	Approx. 171(H) × 65(W) × 39(D) mm (5.6"H × 2.5"W × 1.5"D), approx. 300g (68 ounces)				
Case Material	Dust & weather resistant. RFI shielded high impact plastic				
Controls	Five buttons : POWER / ENTER, DISPLAY, AIR, RESET, SHIFT				
Standard Accessories	• Strap • Probe		• Charger • Ni-Cad battery pack		• Rubber boot
Optional Accessories	• Datalogging software • Docking station		• Alkaline dry cell (3-AA size) • Sampling pipe		
Ordering Information	GX-2003 type A 5 gas, LEL / % Vol / O ₂ / CO / H ₂ S GX-2003 type B 4 gas, LEL / O ₂ / H ₂ S / CO GX-2003 type C 3 gas, LEL / O ₂ / H ₂ S GX-2003 type D 3 gas, LEL / O ₂ / CO GX-2003 type E 3 gas, LEL / % Vol / O ₂ GX-2003 type F 2 gas, LEL / O ₂				
Warranty	One year material and workmanship				

*. Other gases available for % volume range would be consulted.

● Specifications subject to change without notice.



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