

PERSONAL SAMPLE DRAW 4 GAS MONITOR

Gas Detection for Life

GX-2003 Model



Features

- Compact size, weighs only 312 grams
- Monitors Combustibles, O₂, CO and H₂S
- Internal sample drawing pump with 15 mtr range
- Vibration, visual and audible alarm types
- Automatic backlight during alarms
- Calibration reminder and lock out
- Ni-MH power source
- Battery pack charges in or out of the instrument
- Quick charge (complete charge in 90 minutes)
- Glove friendly glow in the dark buttons
- Alarm latching or non latching
- High impact rubber boot protection
- Up to 600 hours of datalogging with alarm trends
- Logs last 20 calibration events
- Autocalibration or single calibration
- TWA and STEL readings with lunch-break mode
- Intrinsically safe, CSA, C / US approved

Applications

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

Built around our high-quality micro-sensor technology, the GX-2003 is RKI's smallest personal 4 gas monitor with a built-in sample pump. Weighing only 312 grams, it has many features. It monitors the standard confined space gases (LEL combustibles, Oxygen deficiency, Carbon Monoxide and Hydrogen Sulfide).

The GX-2003's large LCD display shows all gas readings, battery level and current time simultaneously, and will automatically backlight in alarm conditions. Each channel has 2 adjustable alarm levels in addition to TWA and STEL reading 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 operates on a rechargeable Ni-MH pack. The Ni-MH battery pack can receive a charge directly within the instrument or separately, allowing the unit to remain in service.

The GX-2003 is equipped with datalogging and 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. Calibration intervals and reminders are user adjustable and can be set to either go into alarm or to lock the user out of normal measurement mode once a calibration period has expired. Calibrations can be performed on all channels automatically or individually in single calibration mode. The GX-2003 is also compatible with the DataCal 2000 calibration station for simultaneous, hands-free service of up to 10 instruments.



RIKEN KEIKI

GX-2003 Model

Gas Detected	All Combustible gases (Methane as standard)	% Volume Methane *	Oxygen (O ₂)	Hydrogen Sulphide (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				
Present Alarms (User Adjustable)	1st alarm 10% LEL 2nd alarm 15% LEL Over alarm 100% LEL	N/A	Low alarm 19.5% High alarm 23.5% Over alarm 40.0%	1st alarm 10 ppm 2nd alarm 15 ppm TWA alarm 10 ppm STEL alarm 15 ppm Over alarm 100 ppm	1st alarm 30 ppm 2nd alarm 60 ppm TWA alarm 30 ppm STEL alarm 60 ppm Over alarm 500 ppm
Present Alarms (User Adjustable)	Gas Alarm: flashing lights, intermittent buzzer and vibration, automatic backlighting Trouble Alarm: flashing lights, intermittent buzzer and vibration, automatic backlighting				
Display of Alarms	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 at alarm) Datalogging (up to 600 hours) STEL, TWA Alarm trend data for last 8 alarms Peak hold Direct charging in just 90 minutes Continuous display of current time Calibration reminder and lock out Autocalibration or single calibration				
Operating Temp & Humidity	-20°C ~ to +50°C, 0 to 97% RH, non-condensing (splash resistant)				
Response Time	Within 30 seconds (T90)				
Continuous Operation	10 hours fully charged (without any alarm)				
Power Source	Ni-MH battery pack, direct or separate charge (standard)				
Safety Design/Approvals	Intrinsically safe design, CSA, C/US approved (Pending, CSA file No. 186718-2500028218)				
Dimension & Weight	Approx 171 (H) x 65 (W) x 39 (D) mm, approx 312g				
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	Sampling pipe		
Warranty	One year material and workmanship				

* Other gases available for % Volume range are Hydrogen and Isobutane

Specifications subject to change without notice

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