



# CONFINED SPACE / BAR HOLE / LEAK DETECTOR

Gas Detection For Life

GX-2003 Model



## Features

- Three operating modes: Normal, Bar Hole, and Leak Check
- Monitors LEL, and % volume methane, O<sub>2</sub>, CO and H<sub>2</sub>S
- Barhole mode tests for peak methane and oxygen levels
- Leak detect mode offers high sensitivity tests for ppm level natural gas leaks
- 0 to 100% volume Methane option
- Auto-ranging display of % volume and % LEL
- Internal sample drawing pump with up to 40 foot range
- Vibration, visual, and audible alarms
- Automatic backlight during alarms
- Calibration reminder with lock out option
- Ni-MH or alkaline power source (interchangeable)
- Quick charge (complete charge in 90 minutes)
- Glove friendly glow in the dark buttons
- Alarm latching or non-latching
- High impact protective rubber boot
- Up to 600 hours of datalogging with alarm trends
- Autocalibration or single calibration
- TWA and STEL readings with lunch-break mode
- Intrinsically safe, CSA, C/US classified
- 2 year warranty

Built around high-quality micro-sensor technology, the GX-2003 is RKI's smallest personal 5-in-1 gas monitor with a built in sample pump. Weighing only 11 ounces, it has many features which set the GX-2003 apart from the competition. For example, it can monitor the standard confined space gases (LEL combustibles, Oxygen content, Carbon Monoxide, and Hydrogen Sulfide), and it can also measure 100% volume Methane and dynamically display either % LEL, or % volume with its auto-ranging ability.

The GX-2003's large LCD display shows all gas readings, battery level, current time, and will automatically backlight in alarm conditions. This unit also has a special bar hole mode to facilitate locating underground gas leaks. A high sensitivity leak check mode is also included, and provides ppm level detection of gas leaks. A special variable frequency alarm helps to pinpoint the leak without looking at the instrument display. Other standard mode 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 interchangeably operate on either a Ni-MH battery pack or 3 AA alkaline batteries. The batteries are simple to replace requiring no tools to access the battery compartment. The Ni-MH battery pack can receive a charge directly within the instrument or separately, allowing the unit to remain in service.

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 automatically or individually in single calibration mode. The GX-2003 is also compatible with the economical SM-2003 single channel calibration station.

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# GX-2003 Model

|   |  |                                       |   |  |  |
|---|--|---------------------------------------|---|--|--|
| <b>Gas Detected</b>   | Combustible Gases (Methane as standard)  | % Volume Methane                      | Oxygen (O2)   | Hydrogen Sulfide (H2S)   | Carbon Monoxide (CO)   |
| <b>Detection Principle</b>                                  | Catalytic combustion   | Thermal conductivity                  | Galvanic cell   | Electrochemical cell   |  |
| <b>Detection Range</b>                                      | 0 ~ 100% LEL   | 0 ~ 100% Vol.                         | 0 ~ 40% Vol.  | 0 ~ 100 ppm  | 0 ~ 500 ppm  |
| <b>Accuracy Statement</b><br>(which ever is greater)        | ± 5% of reading or ± 2% LEL  | ± 5% of reading or ± 2% of full scale | ± 0.5% O2   | ± 5% of reading or ± 2 ppm H2S                                   | ± 5% of reading or ± 5 ppm CO  |
| <b>Sampling Method</b>                                      | Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter   |                                       |   |  |  |
| <b>Display</b>  | Digital LCD with 7 segments, auto backlight during alarm   |                                       |   |  |  |
| <b>Preset Alarms (User Adjustable)</b>                      | 1st alarm 10% LEL<br>2nd alarm 50% LEL<br>Over alarm 100% LEL  | N/A                                   | Low alarm 19.5%<br>High alarm 23.5%<br>Over alarm 40.0% | 1st 10ppm<br>2nd 30ppm<br>TWA 10ppm<br>STEL 15ppm<br>Over 100ppm | 1st 25 ppm<br>2nd 50 ppm<br>TWA 25 ppm<br>STEL 200 ppm<br>Over 500 ppm |
| <b>Alarms Types</b>   | Gas alarms: 1st and 2nd (user adjustable), STEL, TWA and OVER<br>Trouble alarms: Sensor connection, low battery, low flow, circuit trouble and calibration error   |                                       |   |  |  |
| <b>Alarm Methods</b>  | Gas alarms: Flashing lights, two tone buzzer, and vibration<br>Trouble alarms: Flashing lights, trouble displayed, intermittent buzzer, and vibration  |                                       |   |  |  |
| <b>Operating Temp. &amp; Humidity</b>                       | -20°C to +50°C (-4°F to 122°F)<br>0 to 85% RH, non-condensing  |                                       |   |  |  |
| <b>Response Time</b>  | Within 30 seconds (T90)  |                                       |   |  |  |
| <b>Continuous Operation</b>                                 | Alkaline battery: 14 hours<br>Ni-MH battery: 16 hours  |                                       |   |  |  |
| <b>Power Source</b>   | Ni-MH battery pack, direct or separate charge, or 3 "AA" Alkaline dry cell batteries; interchangeable  |                                       |   |  |  |
| <b>Safety Rating</b>  | CSA classified, "C/US", as intrinsically safe. Class I, Division 1, Groups A, B, C, D  |                                       |   |  |  |
| <b>Dimension &amp; Weight</b>                               | Approx. 171 (H) x 65 (W) x 39 (D) mm (5.6" H x 2.5" W x 1.5" D), approx. 310 g (11 ounces)   |                                       |   |  |  |
| <b>Case Material</b>  | Dust & splash resistant. RFI shielded high impact plastic with protective rubber boot  |                                       |   |  |  |
| <b>Controls</b>   | Five buttons: POWER / ENTER, DISPLAY, AIR, RESET, SHIFT (glow in the dark)   |                                       |   |  |  |
| <b>Standard Accessories</b>                                 | <ul style="list-style-type: none"> <li>• Wrist strap</li> <li>• 10" Probe</li> <li>• Rubber boot</li> <li>• 10' Hose</li> <li>• Manual</li> <li>• Training CD</li> <li>• Quick reference card</li> </ul>   |                                       |   |  |  |
| <b>Standard Accessories (Leak Check/ Bar Hole Versions)</b> | <ul style="list-style-type: none"> <li>• Wrist strap</li> <li>• 10" Probe</li> <li>• Rubber boot</li> <li>• Manual</li> <li>• 3' Hose</li> <li>• 10' Hose</li> <li>• 30" Bar hole probe</li> <li>• Training CD</li> <li>• Quick reference card</li> </ul>  |                                       |   |  |  |
| <b>Optional Accessories</b>                                 | <ul style="list-style-type: none"> <li>• Datalogging software</li> <li>• Data Cal 2000 Instrument management system</li> <li>• Ni-MH battery pack</li> <li>• Sample draw hoses (10' standard, up to 40' max. available)</li> <li>• Calibration kit</li> <li>• SM-2003 calibration stations</li> <li>• AC or DC Charger</li> <li>• Carrying case</li> </ul> |                                       |   |  |  |
| <b>Configurations</b>                                       | 1, 2, 3, 4, or 5 sensor units<br>Ni-MH or alkaline battery options   |                                       |   |  |  |
| <b>Warranty</b>   | Two years material and workmanship   |                                       |   |  |  |

Specifications subject to change without notice.



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