



# CONFINED SPACE MULTI GAS MONITOR

Gas Detection For Life

GX-2012 Model



## Features

- Monitors ppm LEL, and % volume methane, O<sub>2</sub>, CO and H<sub>2</sub>S
- 0 to 100% volume methane option
- Auto-ranging display of % LEL and % volume
- 3 Operating modes: Normal, leak check, & bar hole
- Leak check mode:
  - PPM leak detector, detects down to 100 ppm CH<sub>4</sub>
  - Adjustable display ranges: 500/1000/2000/5000 ppm
  - Visual / audible pulses change with gas concentration
  - CO display in leak check mode, ideal for residential investigations
- Barhole test mode for underground leak checks
- Status indicators: Pump active, microprocessor status and battery level
- Internal sample drawing pump with up to 50 foot range
- Vibration, visual, and audible alarms
- Automatic backlight during alarms
- Bump test and calibration reminder with lock out option
- Lithium ion or alkaline battery packs (interchangeable)
- Alarm latching or non-latching
- High impact, dust and water resistant design
- Up to 600 hours of datalogging with alarm trends
- Snap-logging - on demand data recording
- TWA and STEL readings with lunch-break mode
- Intrinsically safe, ATEX/IECEX/CE and (CSA version also available)
- 2 year warranty

With the GX-2012, you have multiple tools in one instrument. Having 3 operating modes, the GX-2012 can be used for confined space, safety monitoring in it's Normal Operating mode; for leak investigation in Leak Check mode; and for underground leak checking in Bar Hole mode. When equipped with an optional TC sensor, the GX-2012 can measure 100% volume methane and dynamically auto range from % LEL to % volume. This is ideal for line purge testing.

Built around high-quality micro-sensor technology, the GX-2012 is RKI's smallest personal 1-5 sensor gas monitor with a built in sample pump. Weighing only 12.3 ounces, the GX-2012 can monitor the standard confined space gases (LEL combustibles, Oxygen content, Carbon Monoxide, and Hydrogen Sulfide).

The GX-2012's large LCD display shows all gas readings, battery level, current time, and will automatically backlight in alarm conditions. Standard alarm types include vibration, visual, and audible alarms, which can be set to latching or non-latching. Controlled by a microprocessor, the GX-2012 continuously checks itself for sensor connections, low battery, circuit trouble, low flow, and calibration errors. The GX-2012 can interchangeably operate on either a Li-ion battery pack or an alkaline battery pack. The batteries are simple to replace requiring no tools to access the removable battery compartment or pack.

Calibration and bump test 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-2012 is also compatible with the economical SDM-2012 single channel calibration station.

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World Leader In Gas Detection & Sensor Technology  
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# GX-2012 Model

|   |   |                                       |   |  |  |
|---|---|---------------------------------------|---|--|--|
| <b>Gas Detected</b>                                 | Combustible Gases (Methane as standard)   | % Volume Methane                      | Oxygen (O <sub>2</sub> )                                | Hydrogen Sulfide (H <sub>2</sub> S)                                  | Carbon Monoxide (CO)   |
| <b>Detection Principle</b>                          | Catalytic combustion  | Thermal conductivity                  | Galvanic cell   | Electrochemical cell   |  |
| <b>Detection Range</b>                              | 0 ~ 100% LEL<br>0 ~ 500 / 1,000 / 2,000 / 5,000 ppm   | 0 ~ 100% Vol.                         | 0 ~ 40% Vol.  | 0 ~ 100 ppm<br>(Optional 0-500 ppm)                                  | 0 ~ 500 ppm  |
| <b>Accuracy Statement</b><br>(whichever is greater) | ± 5% of reading or ± 2% LEL (LEL mode only)   | ± 5% of reading or ± 2% of full scale | ± 0.5% O <sub>2</sub>                                   | ± 5% of reading or ± 2 ppm H <sub>2</sub> S                          | ± 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</b><br>(User Adjustable)           | 1st alarm 10% LEL<br>2nd alarm 50% LEL<br>Over alarm 100% LEL   | No alarms for % Vol. CH <sub>4</sub>  | Low alarm 19.5%<br>High alarm 23.5%<br>Over alarm 40.0% | 1st 5 ppm<br>2nd 30 ppm<br>TWA 10 ppm<br>STEL 15 ppm<br>Over 100 ppm | 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, STEL, TWA (user adjustable) 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 95% RH, non-condensing   |                                       |   |  |  |
| <b>Response Time</b>                                | Within 30 seconds (T <sub>90</sub> )  |                                       |   |  |  |
| <b>Continuous Operation</b>                         | Alkaline battery: 15 hours      Li-Ion battery: 10 hours<br>70°F (21°C)   |                                       |   |  |  |
| <b>Power Source</b>                                 | Li-Ion battery pack, or 3 "AA" Alkaline battery pack; interchangeable   |                                       |   |  |  |
| <b>Safety Rating</b>                                | ATEX, TIIS, IECEx, CE, CSA classified (as standard), as intrinsically safe. Class I, Division 1, Groups A, B, C, D (optional version available)   |                                       |   |  |  |
| <b>Dimension &amp; Weight</b>                       | Approx. 143 (H) x 71 (W) x 43 (D) mm (5.6" H x 2.8" W x 1.6" D), approx. 350 g (12.3 ounces)  |                                       |   |  |  |
| <b>Case Material</b>                                | High dust & water resistant design. RFI shielded high impact plastic with protective rubber overmolding   |                                       |   |  |  |
| <b>Controls</b>                                     | Five buttons: POWER / ENTER, DISPLAY, AIR, RESET, SHIFT   |                                       |   |  |  |
| <b>Standard Accessories</b>                         | <ul style="list-style-type: none"> <li>• Belt clip</li> <li>• 10" Probe</li> <li>• 10' Hose</li> <li>• Rubber nozzle, 3.5"</li> <li>• Manual</li> <li>• Training CD</li> <li>• Datalogging software</li> <li>• Quick reference card</li> </ul>                          |                                       |   |  |  |
| <b>Optional Accessories</b>                         | <ul style="list-style-type: none"> <li>• SDM-2012 calibration stations</li> <li>• Li-Ion battery pack</li> <li>• Sample draw hoses (10' standard, up to 100' max. available)</li> <li>• Calibration kit</li> <li>• AC or DC Charger</li> <li>• Carrying case</li> </ul> |                                       |   |  |  |
| <b>Configurations</b>                               | 1, 2, 3, 4, or 5 sensor units<br>Li-Ion or alkaline battery pack options  |                                       |   |  |  |
| <b>Warranty</b>                                     | Two years material and workmanship  |                                       |   |  |  |



Specifications subject to change without notice.



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