# CONFINED SPACE MULTI GAS MONITOR

**RKI INSTRUMENTS**

**Gas Detection For Life**

# GX-2012 Model

## Features

- Monitors LEL, and % volume methane, O2, CO and H2S
- 0 to 100% volume methane option
- Auto-ranging display of % LEL and % volume
- Barhole test mode
- Bump test reminder option
- Snap-logging - on demand data recording
- Status indicators:
    —Pump active, microprocessor status and battery level
- Internal sample drawing pump with up to 50 foot range
- Pump pause on demand extends battery life
- Vibration, visual, and audible alarms
- Automatic backlight during alarms
- Calibration reminder with lock out option
- Lithium ion or alkaline power source (interchangeable)
- Quick charge (complete charge in 90 minutes)
- Glove friendly large buttons
- Alarm latching or non-latching
- High impact protective rubber overmolding
- Up to 600 hours of datalogging with alarm trends
- Autocalibration or single calibration
- TWA and STEL readings with lunch-break mode
- Intrinsically safe, ATEX/IECEX/CE, c CSA us (pending)
- High dust and water resistance design
- 2 year warranty

Built around high-quality micro-sensor technology, the GX-2012 is RKI's smallest personal 5 sensor gas monitor with a built in sample pump. Weighing only 12.3 ounces, two operating modes: Normal (for confined spaces) and bar hole. The GX-2012 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-2012 can be used for gas line purge testing as well as standard safety testing.

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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| Gas Detected | Combustible Gases (Methane as standard) | % Volume Methane | Oxygen (O2) | Hydrogen Sulfide (H2S) | Carbon Monoxide (CO) |
|---|---|---|---|---|---|
| Detection Principle | Catalytic combustion | Thermal conductivity | Galvanic cell | Electrochemical cell | |
| Detection Range | 0 ~ 100% LEL | 0 ~ 100% Vol. | 0 ~ 40% Vol. | 0 ~ 100 ppm | 0 ~ 500 ppm |
| Accuracy Statement (whichever 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 |
| Sampling Method | Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter | | | | |
| Display | Digital LCD with 7 segments, auto backlight during alarm | | | | |
| Preset Alarms (User Adjustable) | 1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL | No alarms for % Vol. CH4 | Low alarm 19.5% High alarm 23.5% Over alarm 40.0% | 1st 10 ppm 2nd 30 ppm TWA 10 ppm STEL 15 ppm Over 100 ppm | 1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm |
| Alarms Types | 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 | | | | |
| Alarm Methods | Gas alarms: Flashing lights, two tone buzzer, and vibration<br>Trouble alarms: Flashing lights, trouble displayed, intermittent buzzer, and vibration | | | | |
| Operating Temp. & Humidity | -20°C to +50°C (-4°F to 122°F)<br>0 to 95% RH, non-condensing | | | | |
| Response Time | Within 30 seconds (T90) | | | | |
| Continuous Operation | Alkaline battery: 15 hours       Li-Ion battery: 10 hours<br>70°F (21°C) | | | | |
| Power Source | Li-Ion battery pack, or 3 "AA" Alkaline battery pack; interchangeable | | | | |
| Safety Rating | ATEX, TIIS, IECEx, CE,<br>$_c$ CSA $_{us}$ classified (pending), as intrinsically safe. Class I, Division 1, Groups A, B, C, D | | | | |
| Dimension & Weight | 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) | | | | |
| Case Material | High dust & water resistant design. RFI shielded high impact plastic with protective rubber overmolding | | | | |
| Controls | Five buttons: POWER / ENTER, DISPLAY, AIR, RESET, SHIFT | | | | |
| Standard Accessories | • Belt clip       • Rubber nozzle, 2.5"       • Datalogging software<br>• 10" Probe       • Manual       • Quick reference card<br>• 10' Hose       • Training CD | | | | |
| Optional Accessories | • SDM-2012 calibration stations       • Calibration kit<br>• Li-Ion battery pack       • AC or DC Charger<br>• Sample draw hoses (10' standard, up to 50' max. available)       • Carrying case | | | | |
| Configurations | 1, 2, 3, 4, or 5 sensor units<br>Li-Ion or alkaline battery pack options | | | | |
| Warranty | Two years material and workmanship | | | | |

Specifications subject to change without notice.

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10000363   (UL) ISO 9001

## Authorized Distributor: