# CONFINED SPACE MULTI GAS MONITOR

## GX-2012 Model

## Features:

- Monitors LEL, % Vol Methane, O2, CO and H2S
- 0 to 100% Vol Methane option
- Auto-ranging display of % LEL and % volume
- Internal sample drawing pump with up to 15 metre range
- Vibration, visual, and audible alarms
- Automatic backlight during alarms
- Calibration reminder with lock out option
- 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

Built around our high-quality micro-sensor technology, the GX-2012 is our smallest personal 5 sensor gas monitor with a built-in sample pump.  Weighing only 350 grams, it has 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 Sulphide) as well as 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 and current time, and will automatically backlight in alarm conditions.  Standard alarm types include vibration, visual and audible alarms that 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.

## Contact Information

| Gas Detected | 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 | 0 – 100% LEL | 0 - 100% Vol | 0 – 40.0% 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 ± 2ppm H2S | ± 5% of reading or ± 5ppm 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 | | | | |
| Present Alarms (User Adjustable) | 1st alarm   5% LEL<br>2nd alarm  10% LEL<br>Over alarm  100% LEL | No alarms for % Vol CH4 | Low alarm  19.5%<br>High alarm  23.5%<br>Over alarm  40.0% | 1st alarm   10 ppm<br>2nd alarm  15 ppm<br>TWA alarm  10 ppm<br>STEL alarm  15 ppm<br>Over alarm  100 ppm | 1st alarm   30 ppm<br>2nd alarm  60 ppm<br>TWA alarm  30 ppm<br>STEL alarm  200 ppm<br>Over alarm  500 ppm |
| Alarm Types | Gas Alarm:   1st and 2nd, STEL, TWA (user adjustable) and OVER<br>Trouble Alarm:   Sensor connection, low battery, low flow, circuit trouble and calibration error | | | | |
| Alarm Methods | Gas Alarm:   Flashing lights, two tone buzzer and vibration<br>Trouble Alarm:   Flashing lights, trouble displayed, intermittent buzzer and vibration | | | | |
| Operating Temp & Humidity | -20℃ to +50℃, 0 to 95% RH, non-condensing | | | | |
| Response Time | Within 30 seconds (T90) | | | | |
| Continuous Operation | Alkaline battery: 15 hours      Li-ion battery: 10 hours<br>21℃ | | | | |
| Power Source | Li-ion battery pack or 3 "AA" Alkaline battery pack (standard); 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 | | | | |
| Dimensions & Weight | Approx  14.3 cm  x 7.1 cm x 4.3 cm (H x W x D), Weight is approx 350g | | | | |
| Case Material | High dust & water resistant design.  RFI shielded high impact plastic with protective rubber overmoulding | | | | |
| Controls | Five buttons: POWER/ENTER, DISPLAY, AIR, RESET, SHIFT | | | | |
| Standard Accessories | Belt clip             Rubber nozzle 6.3 cm       Manual<br>Quick reference card  Training CD             Alkaline battery pack | | | | |
| Optional Accessories | SDM-2012 Calibration station   Calibration kit              Li-ion battery pack<br>Carry case                  Sample draw hose (3 -15m available)  25 cm  Probe<br>AC or DC charger         Datalogging software | | | | |
| Configurations | 1, 2, 3, 4 or 5 sensor units<br>Li-ion or alkaline battery pack options | | | | |
| Warranty | Two year material and maintenance | | | | |

*Specifications subject to change*

## CONTACT INFORMATION

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