

GX-2012

Confined space multi gas monitor



Built around Riken's high-quality micro-sensor technology, the GX-2012 is their 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.

KEY 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

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RANGE OF GASES DETECTED

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% O ₂	+ 5% of reading or + 2ppm H ₂ S	+ 5% of reading or + 5ppm CO	

SPECIFICATIONS Specifications subject to change without notice

Sampling Method	Internal sample pump, flow rate nominal 0.5 lpm, includes hydrophobic filter	Safety Rating	ATEX, TIIS, IECEx, CE cCSAus classified (pending) as intrinsically safe. Class I, Division 1, Groups A, B, C, D
Display	Digital LCD with 7 segments, auto back-light during alarm	Dimensions & Weight	Approx 14.3 cm x 7.1 cm x 4.3 cm (H x W x D), Weight is approx 350g
Alarm Types	Gas Alarm: 1st and 2nd, STEL, TWA (user adjustable) and OVER Trouble Alarm: Sensor connection, low battery, low flow, circuit trouble and calibration error	Case Material	High dust & water resistant design. RFI shielded high impact plastic with protective rubber overmoulding
Alarm Methods	Gas Alarm: Flashing lights, two tone buzzer and vibration Trouble Alarm: Flashing lights, trouble displayed, intermittent buzzer and vibration	Controls	Five buttons: POWER/ENTER, DISPLAY, AIR, RESET, SHIFT
Operating Temp & Humidity	-20°C to +50°C, 0 to 95% RH, non-condensing	Standard Accessories	Belt clip, Quick reference card, Rubber nozzle 6.3 cm Training CD, Manual, Alkaline battery pack
Response Time	Within 30 seconds (T90)	Optional Accessories	SDM-2012 Calibration station, Calibration kit, Li-ion battery pack Carry case, Sample draw hose (3 -15m available), 25 cm Probe, AC or DC charger, Datalogging software
Continuous Operation	Alkaline battery: 15 hours Li-ion battery: 10 hours 21°C	Configurations	1, 2, 3, 4 or 5 sensor units Li-ion or alkaline battery pack options
Power Source	Li-ion battery pack or 3 "AA" Alkaline battery pack (standard); interchangeable	Warranty	Two year material and maintenance



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