

# GX-3R

## Four gas personal monitor



The GX-3R is the worlds smallest 4 gas monitor weighing only 110 grams and can comfortably be clipped within a workers breathing zone (55mm W x 64mm H x 26mm D). It simultaneously monitors and displays LEL combustibles, O<sub>2</sub>, CO (Hydrogen compensated CO also available), and H<sub>2</sub>S.

The GX-3R represents the latest evolution of gas detection technology utilizing a new generation of micro sensors. The LEL sensor has a unique design with two active filaments in one sensor to increase it's resistance to silicone poisoning. If one filament gets poisoned the second filament takes over. The new O<sub>2</sub> sensor is electrochemical with a 5 year life span. H<sub>2</sub>S and CO are now available in a combo micro sensor.

Safety supervisors will appreciate the non-compliance indicator. The instrument flashes it's 3 LED lights every 30 seconds, if the instrument has been exposed to a gas or has not been bump tested or calibration is due. The 3 LED lights will continue flash once every 30 seconds until the non-compliance condition has been resolved.

OSHA defines the breathing zone as a ten inch radius around the worker's nose and mouth, and requires that worker exposure

monitoring air samples be collected in the breathing zone. Air sampling filters may be attached to the collar or lapel. Traditionally this means only a single gas monitor would be small enough for

a worker to practically wear a gas monitor 'In the breathing zone'. Now there is a 4 gas monitor smaller than many single gas monitors.

### APPLICATIONS:

- Confined spaces
- Hazardous material
- Refineries/ chemical plants
- Personal monitoring
- Utilities
- Water/wastewater plants
- Fire services
- Pharmaceuticals

### ACCESSORIES

- 3 meter hose and sample pump
- Calibration cup
- Hard carry case
- 12V charger
- Calibration gas with 0.25Lpm regulator
- SDM- 3R

### KEY FEATURES

- Simultaneous detection of 4 gases LEL, O<sub>2</sub>, H<sub>2</sub>S & CO
- Smallest / Lightest 4 gas monitor on the market (55mm H x 64mm W x 26mm D), approx 110 grams
- Dual audible alarm ports (95 db @ 30 cm)
- 3 visual alarm LED's
- Vibration alarm
- IP-68 Waterproof / dustproof design
- Non-compliance indicator
- Large capacity data logging standard
  - 8 alarm trends
  - Log time range of 10 to 300 hours
  - 100 calibration records
- 25 hours of operation (Lithium-ion batteries)
- Large LCD display screen
- Automatic backlighting at alarm
- Impact resistant body
- STEL and TWA readouts
- Intrinsically safe, IECEx / ATEX approved
- 3 year warranty

## GX-3R

**SPECIFICATIONS** Specifications subject to change without notice

Gas Detected	All Combustible gases (Methane as standard)	Oxygen (O <sub>2</sub> )	Hydrogen Sulphide (H <sub>2</sub> S)	Carbon Monoxide (CO)
<b>Detection Principle</b>	Catalytic Combustion	Electrochemical cell	Dual Electrochemical cell	
<b>Detection Range (Increments)</b>	0 – 100% LEL (1% LEL)	0 – 25.0% Vol (0.1% Vol)	0 – 100 ppm (0.5 ppm)	0 – 500 ppm (1 ppm)
<b>Service Range</b>		25.1 – 40.0% Vol	101 – 200 ppm	501 – 2000 ppm
<b>Sampling Method</b>	Diffusion sampling, hand aspirator or motorised pump optional			
<b>Display</b>	Digital LCD displays with 7 segment plus 14 segment plus icon			
<b>Present Alarms (User Adjustable)</b>	1st alarm 5% LEL 2nd alarm 10% LEL Over alarm 100% LEL	Low alarm 19.5% High alarm 23.5% Over alarm 40.0%	1st alarm 10 ppm 2nd alarm 15 ppm TWA alarm 10 ppm STEL alarm 15 ppm Over alarm 200 ppm	1st alarm 30 ppm 2nd alarm 60 ppm TWA alarm 30 ppm STEL alarm 60 ppm Over alarm 2000 ppm
<b>Types of Alarms</b>	Gas Alarm:	2 Increasing alarms, STEL, TWA, overscale alarm. O <sub>2</sub> decreasing/increasing.		
	Trouble Alarm:	Sensor disconnection, low battery, circuit error, calibration range error		
<b>Display of Alarms</b>	Gas Alarm:	Flashing LEDs, continuous buzzer (100 db @ 30 cm), flashing gas value, vibration		
	Trouble Alarm:	Flashing LEDs, intermittent buzzer (95 db @ 30 cm), display of error message		
<b>Operating Temp &amp; Humidity</b>	-40°C to +60°C, 0 to 95% RH, non-condensing (splash resistant)			
<b>Response Time</b>	Within 30 seconds (T90)			
<b>Continuous Operation</b>	25 hours after a full 3 hour charge			
<b>Power Source</b>	Lithium-ion battery			
<b>Safety Design/Approvals</b>	I M1Ex da ia I Ma/II 1G Ex da ia IIC T4 Ga (ATEX) IEC ex			
<b>Dimension &amp; Weight</b>	Approx 55mm (H) x 64mm (W) x 26mm (D), approx 110g			
<b>Case Material</b>	Explosion proof, dust and water resistant to IP-68 (2m,1h) approval. Drop height 7m			
<b>Controls</b>	Two buttons: POWER / MODE, AIR			
<b>Datalogging</b>	Logs user ID, station ID, Calibration & Bump Test history, Alarm Events & Alarm Trends			
<b>Standard Accessories</b>	<ul style="list-style-type: none"> <li>Alligator clip</li> <li>Charger</li> </ul>			
<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>Padded carrying case for GX-3R and accessories</li> <li>RP-3R Attachable sampling Pump with tapered rubber nipple, 3m hose and probe (up to 12m hose available) USB to IrDA downloading cable for datalogger</li> <li>SDM-3R calibration station</li> <li>Calibration Cup</li> </ul>			
<b>Warranty</b>	Three years material and workmanship			



**t** +61 8 6108 0000

**e** [info@gastech.com](mailto:info@gastech.com)

**w** [gastech.com](http://gastech.com)

**HEAD OFFICE**  
24 Baretta Road  
Wangara WA 6065  
Phone: +61 8 6108 0000

**SYDNEY OFFICE**  
21/25 Narabang Way  
Belrose NSW 2085  
Phone: +61 2 9451 0054

**BRISBANE OFFICE**  
PO Box 349  
Cannon Hill Qld 4170  
Phone: +61 7 3160 0901