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.

The GX-3R is the worlds smallest 4 gas monitor weighing only 3.52 ounces and can comfortably be clipped within a worker’s breathing zone (2.2” W x 2.55” H x 1.02” D). It simultaneously monitors and displays LEL combustibles, O2, CO (Hydrogen compensated CO also available), and H2S.

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 O2 sensor is electrochemical with a 3 to 5 year life span. H2S 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 in the following conditions; if the instrument has not been bump tested, or if calibration is due, or if there was a gas alarm event. The 3 LED lights will continue to flash once every 30 seconds until the non-compliance condition has been resolved. The 30 second interval is adjustable.
#GX-3R Model

## Sensor Slot

<table>
<thead>
<tr>
<th>Gas Detected</th>
<th>Carbon Monoxide</th>
<th>Hydrogen Sulfide</th>
<th>Combustible Gases</th>
<th>Oxygen</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CO)</td>
<td>(CO)</td>
<td>(H2S)</td>
<td>(Methane as standard)</td>
<td></td>
</tr>
<tr>
<td>H2 Compensated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Sensor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Detection Principle

<table>
<thead>
<tr>
<th>Sensor Slot</th>
<th>Detection Principle</th>
<th>Detection Range</th>
<th>Accuracy Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EC</td>
<td>0 ~ 2,000 ppm</td>
<td>± 5% of reading or ± 2 ppm CO</td>
</tr>
<tr>
<td>2</td>
<td>Dual EC</td>
<td>0 ~ 200.0 ppm</td>
<td>± 5% of reading or ± 2 ppm H2S</td>
</tr>
<tr>
<td>3</td>
<td>EC</td>
<td>0 ~ 100% LEL</td>
<td>± 5% of reading or ± 2% LEL</td>
</tr>
</tbody>
</table>

## Sampling Method

- **Diffusion sampling standard** (hand aspirator or clip-on motorized pump optional)

## Display

| Display | Digital LCD displays with 7 segment plus 14 segment plus icon |

## Preset Alarms

<table>
<thead>
<tr>
<th>Preset Alarms (User Adjustable)</th>
<th>Overscale alarm (Non-adjustable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st alarm: 25.0 ppm</td>
<td>1st alarm: 5.0 ppm</td>
</tr>
<tr>
<td>2nd alarm: 50.0 ppm</td>
<td>2nd alarm: 10.0 LEL</td>
</tr>
<tr>
<td>3rd alarm: 125.0 ppm</td>
<td>3rd alarm: 25.0 LEL</td>
</tr>
<tr>
<td>TWA alarm: 25.0 ppm</td>
<td>TWA alarm: 1.0 ppm</td>
</tr>
<tr>
<td>STEL alarm: 200.0 ppm</td>
<td>STEL alarm: 5.0 ppm</td>
</tr>
<tr>
<td>Over alarm: 2000.0 ppm</td>
<td>Over alarm: 100.0 LEL</td>
</tr>
</tbody>
</table>

## Types of Alarms

- **Gas Alarm**: 3 Increasing alarms, STEL, TWA, overscale alarm. O2 decreasing/increasing.
- **Trouble alarm**: Sensor disconnection, low battery, circuit error, calibration range error

## Operating Temp. & Humidity

-20°C ~ +50°C [-4°F ~ +122°F], 10 to 90% RH, non-condensing (continuous environment)

## Power Source

- Lithium-ion battery, Approx. 25 hours after a 3 hour full charge

## Approvals

- ATEX, CSA

## Dimension & Weight

- 2.2” W x 2.55” H x 1.02” D (Approx. 58 W x 65 H x 26 D mm), 3.52 ounces (approx. 100 g) without rubber boot
- 2.4” W x 2.63” H x 1.06” D (Approx. 61 W x 67 H x 27 D mm), 3.70 ounces (approx. 105 g) with rubber boot

## Case Material

- Explosion proof, dust and water resistant to IP-66/68 (2m,1h) approval. Drop height 23 ft

## Controls

- Two buttons: POWER / MODE, AIR

## Datalogging

- Logs user ID, station ID, Calibration & Bump Test history, Alarm Events & Alarm Interval Trends

## Standard Accessories

- Alligator clip, protective rubber boot, charger, and calibration adapter

## Optional Accessories

- SDM-3R calibration station
- RP-3R Clip-on sampling pump with 4” rubber nipple, 10’ hose and probe (up to 40’ hose available)
- Padded carrying case for GX-3R and accessories
- USB to IrDA downloading cable for datalogger

## Warranty

- Three years material and workmanship

### Calibration Station SDM-3R

- Charge, calibrate, bump test, and alarm test
- Automatically schedule calibrations & bump test
- Fast bump mode uses less calibration gas
- Ethernet and USB output connections
- Bank up to 10 units with tubeless connection

### Clip-On Sampling Pump RP-3R

- 100’ sampling range and independent power supply