



# GX-3R Pro

Gas Detection for Life

## Features

- Smallest & lightest 5 gas monitor
- 2.9" W x 2.6" H x 1.06" D, 4.58 ounces
- Simultaneous detection of 5 gases:
  - LEL, O<sub>2</sub>, H<sub>2</sub>S, CO, and other optional sensors
  - H<sub>2</sub> Compensated CO sensor available
- Simple 2-button operation
- Bluetooth communication with iOS & Android app
- Non-compliance indicator
- 3 User adjustable alarm levels
- Panic alarm (tap instrument twice)
- Man down alarm
- Impact resistant body
- Large full dot, auto-backlit display with auto-rotation
- Stealth mode for law enforcement
- Field replaceable sensors & filters
- Water and dust resistant design, IP66/68
- 3 Year warranty



## Applications

- |                     |                          |
|---------------------|--------------------------|
| Personal monitoring | Refineries/petrochemical |
| Oil and Gas         | Fire services            |
| Confined spaces     | Utilities                |
| Water/wastewater    | Construction             |

# 5 Gas Monitor

WORD'S SMALLEST AND LIGHTEST

The GX-3R Pro is the world's smallest 5-gas monitor weighing only 4.58 ounces and fits in the palm of your hand (2.9" W x 2.6" H x 1.06" D). It simultaneously monitors and displays 5 different gases. In addition to monitoring standard confined space gases, LEL, O<sub>2</sub>, CO, & H<sub>2</sub>S, the GX-3R Pro has a 5th channel where you can add infrared or toxic sensors. Two of the four sensor slots have interchangeable sensors providing flexible configurations, which can easily be changed in the field.

The GX-3R Pro comes equipped with Bluetooth wireless communication, man-down alarm, the choice of alkaline or rechargeable power supply, and a 3 year warranty. The Lithium-ion battery pack will operate for 25 hours and will fully charge in 3 hours.



The GX-3R Pro utilizes Bluetooth communication to display direct gas readings from the instrument to a phone app, which is available free on either iOS or Android phones. Automatic notifications can be programmed to send text or email messages, if there is an alarm event from the GX-3R Pro. 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.



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Detectable Gases					Common Specifications						
Gas	Measuring Range (Increments)	Accuracy Statement	Preset Alarms		Sampling Method	Diffusion sampling standard (hand aspirator or clip-on motorized pump optional)					
<b>Sensor Slot 1: Carbon Monoxide (CO) &amp; Hydrogen sulfide (H<sub>2</sub>S) *Interchangeable</b>					<b>Display</b>	Full dot LCD with Autobacklight and Autorotation					
H <sub>2</sub> S/CO	Dual EC	0 ~ 2000 ppm (1 ppm)	± 5% of reading or ± 5 ppm CO	A1: 25 ppm   A2: 50 ppm A3: 1200 ppm   TWA: 25 ppm STEL: 200 ppm		<b>Alarm Types</b>	<b>Gas Alarm</b>	<b>Trouble Alarm</b>			
		0 ~ 200.0 ppm (0.1 ppm)	± 5% of reading or ± 2 ppm H <sub>2</sub> S	A1: 5 ppm   A2: 30 ppm A3: 100 ppm   TWA: 1.0 ppm STEL: 5.0 ppm			<ul style="list-style-type: none"> <li>• 2 increasing alarms</li> <li>• STEL</li> <li>• TWA</li> <li>• Overscale alarm</li> <li>• O<sub>2</sub> decreasing/increasing</li> </ul>	<ul style="list-style-type: none"> <li>• Sensor disconnection</li> <li>• Low battery</li> <li>• Circuit error</li> <li>• Calibration range error</li> <li>• Cal or bump due alarm</li> </ul>			
H <sub>2</sub> S Only	EC	0 ~ 200.0 ppm (0.1 ppm)	± 5% of reading or ± 2 ppm H <sub>2</sub> S	A1: 5 ppm   A2: 30 ppm A3: 100 ppm   TWA: 1.0 ppm STEL: 5.0 ppm	<ul style="list-style-type: none"> <li>• Man Down Alarm</li> <li>• Panic Alarm</li> </ul>						
CO H <sub>2</sub> Compensated	EC	0 ~ 2,000 ppm	± 5% of reading or ± 2 ppm CO	A1: 25 ppm   A2: 50 ppm A3: 1200 ppm   TWA: 25 ppm STEL: 200 ppm	<b>Display of Alarm</b>	<b>Gas Alarm</b>	<b>Trouble Alarm</b>				
<b>Sensor Slot 2: Combustibles (Methane as standard)</b>						<ul style="list-style-type: none"> <li>• Flashing LED's</li> <li>• Continuous buzzer (100 db @ 30cm)</li> <li>• Flashing gas value</li> <li>• Vibration</li> </ul>	<ul style="list-style-type: none"> <li>• Flashing LED's</li> <li>• Intermittent buzzer (95 db @ 30cm)</li> <li>• Display of error message</li> </ul>				
CH <sub>4</sub> /HC	Catalytic	0 ~ 100 (1% LEL)	± 5% of reading or ± 2 % LEL	1st: 10% LEL   2nd: 25% LEL 3rd: 50% LEL   Over: 100% LEL	<b>Operating Temp. &amp; Humidity</b>	-20°C ~ +50°C [-4°F ~ +122°F] 10 to 90% RH, non-condensing (continuous environment)					
<b>Sensor Slot 3: Oxygen (O<sub>2</sub>)</b>						-40°C ~ +60°C [-40°F ~ +140°F] 0 to 95% RH, non-condensing (temporary environment)					
O <sub>2</sub>	EC	0 ~ 40.0% Vol. (0.10%)	± 0.5% O <sub>2</sub>	Low 1: 19.5%   Low 2: 18.0% High: 23.5%   Over: 40.0%	<b>Response Time</b>	Within 30 seconds (T90)					
<b>Sensor Slot 4: Toxics &amp; CO<sub>2</sub> *Interchangeable</b>					<b>Power Source</b>	<b>Config</b>	<b>Li-ion</b>	<b>Alkaline</b>			
SO <sub>2</sub>	EC	0 ~ 100.0 ppm (0.05 ppm)	± 10% of reading or ± 5 % of full scale	A1: 2 ppm   A2: 5 ppm A3: 100 ppm   TWA: 0.25 ppm STEL: 0.25ppm		4-gas + EC	25 hours	16 hours			
CO <sub>2</sub> %	IR (Available AUG 2019)	0 ~ 10.0% Vol. (0.01%)	± 5% of reading or ± 2 ppm	A1: 0.50% Vol.   A2: 3.00% Vol. A3: 4.00% Vol.   TWA: 0.50% Vol. STEL: 3.00% Vol.		4-gas + IR	16 hours	7 hours			
CO <sub>2</sub> ppm		0 ~ 10,000 ppm (20 ppm)		A1: 5,000 ppm   A2: N/A TWA: N/A   STEL: N/A	<b>Dimension &amp; Weight</b>			2.9" W x 2.6" H x 1.06" D (Approx. 73 W x 65 H x 26 D mm), 4.58oz (with rubber boot)			
<b>Calibration Station SDM-3R</b>				<b>Clip-On Sampling Pump RP-3R</b>				<b>Case Material</b>	Explosion proof, dust and water resistant to IP-66/68 (2m, 1h) approval. Drop height 23 ft		
								<b>Bluetooth Communication</b>	BLE: with iOS and Android phone app: <i>RK Link</i>		
								<b>Datalogging</b>	Logs user ID, station ID, Calibration & Bump Test history, Alarm Events & Alarm Trends		
								<b>Standard Accessories</b>	Alligator clip, protective rubber boot, charger, calibration adapter		
								<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>• Padded carrying case</li> <li>• RP-3R Attachable sampling Pump with 4" rubber nipple, 10' hose and probe (up to 40' hose available)</li> <li>• USB to IrDA downloading cable for datalogger</li> <li>• SDM-3R calibration station</li> <li>• Hand aspirator</li> </ul>		
								<b>Safety Design / Approvals</b>	ATEX, CSA (Pending)		
								<b>Warranty</b>	Three years material and workmanship including sensors		

\*Specifications subject to change without notice

## CO<sub>2</sub> Gas Monitoring for Concrete Suppliers

There are 2.100 **Ready Mix Concrete Suppliers** just in the USA. They provide the foundation for much of our buildings and roadways. It is becoming more common to inject the concrete with carbon dioxide during the mixing stage. Once injected, the CO<sub>2</sub> undergoes a mineralization process and becomes permanently embedded, while shortening the cure time and increasing the concrete's compressive strength.

Ready Mix Concrete companies (RMC's) are required to enter the central mix drum in between wet batch cycles to clean them out and perform routine maintenance. These activities involve confined space entry and this industry has been a long time user of our four-gas personal portable instruments. Many of these users feel that a four-gas instrument is sufficient because they will see a drop in oxygen as CO<sub>2</sub> accumulates. The problem with this logic, though, is that CO<sub>2</sub> is toxic long before it displaces enough oxygen to put that channel in alarm. 5.000 ppm CO<sub>2</sub>, the TLV, is just 0,5% volume. In otherwise fresh air, the oxygen channel will read 20,8% volume, instead of 20,9% volume – nowhere near an asphyxiation hazard alarm.

In fact, the IDLH for CO<sub>2</sub> is 4% volume, so even if the CO<sub>2</sub> level reaches that point, it will only cause a reading of 20,1% volume oxygen. So even when there is an immediate danger from the CO<sub>2</sub>, the oxygen reading is still far away from an alarm condition.



## RKI Solution



Our **GX-3R Pro** is ideally suited to address these hazards. In addition to the standard confined space gases: LEL, O<sub>2</sub>, CO and H<sub>2</sub>S, the GX-3R Pro is also available with a specific CO<sub>2</sub> sensor. The CO<sub>2</sub> sensor specifically detects low levels of the CO<sub>2</sub> associated with Ready Mix Concrete instead of relying on higher CO<sub>2</sub> levels to trigger an O<sub>2</sub> alarm.