



# GX-2009

Gas Detection for Life

## PERSONAL FOUR GAS MONITOR

### 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
- 2.7" H x 3" W x 1" D, 4.6 oz.
- Dual audible alarm ports (95db @ 30cm)
- 3 visual alarm LED's
- Vibration alarm
- IP-67 Water resistant/dustproof design
- Calibration and bump test lock out or reminder controls
- Large capacity data logging standard
- 8 alarm trends
- Log time range of 10 to 300 hours
- 100 calibration records stored
- 20 hours of operation (NiMH batteries)
- Large LCD display screen
- Automatic backlighting at alarm
- Impact resistant rubber over-mold body
- STEL and TWA readouts
- Intrinsically safe, CSA, C/US classified IECEx / ATEX approved (optional MSHA version available)
- 2 year warranty



### Applications

- |                          |                  |
|--------------------------|------------------|
| Personal Monitoring      | Oil And Gas      |
| Confined Spaces          | Water/Wastewater |
| Refineries/Petrochemical | Fire Services    |
| Utilities                | Construction     |

RKI is proud to offer the smallest and lightest 4-gas monitor in the world, the GX-2009. Weighing only 4.6 ounces, it fits in the palm of your hand (2.75" H x 2.95" L x .98" D). The GX-2009 simultaneously monitors and displays combustibles, oxygen, carbon monoxide, and hydrogen sulfide. The GX-2009 represents the latest evolution of gas detection technology. Advancements include dual audible alarm ports and alarm LED's on 3 sides of the instrument, so that alarm conditions are obvious from multiple perspectives especially in high noise environments. Other features include a water resistant and dustproof design with IP 67 rating, an impact resistant rubber over-mold body that is RFI resistant, and a large capacity data logging system included as standard. Other standard features are vibration alarm, auto-calibration, calibration and bump test lock out or reminder control, STEL/TWA readings, peak hold, auto backlighting at alarm on a large LCD display, and it even tells the time!

Word's Smallest & Lightest

## 4 Gas Monitor

All of these controls and features are operated through 2 simple glove friendly buttons. The NiMH battery set will operate for 20 hours and will fully charge in 3 hours. A huge capacity data logging function is a standard feature on all GX-2009 instruments. The data logging software will store up to 100 calibration records and is Windows XP, 7, 8, and 10. The GX-2009 is also functional with the SDM-2009 single calibration station and the Data Cal 2000 instrument maintenance system.

The GX-2009 is designed around RKI's compact and proven sensors, utilizing catalytic combustion, electrochemical and galvanic sensor technologies.

Each miniaturized sensor is manufactured with the same high quality control that has made RKI sensors and instruments the most reliable and long lasting monitoring devices in the industry.

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<b>Gas Detected</b>	Combustible Gases (Methane as standard)	Oxygen (O2)	Hydrogen Sulfide (H2S)	Carbon Monoxide (CO)
<b>Detection Principle</b>	Catalytic combustion	Galvanic cell	Electrochemical cell	
<b>Detection Range (Increments)</b>	0 ~ 100% LEL (1% LEL)	0 ~ 40.0% Vol. (0.1% Vol.)	0 ~ 100.0 ppm (0.5 ppm)	0 ~ 500 ppm (1 ppm)
<b>Accuracy Statement</b>	± 5% of reading or ± 2% LEL (whichever is greater)	± 0.5% O2	± 5% of reading or ± 2 ppm H2S (whichever is greater)	± 5% of reading or ± 5 ppm CO (whichever is greater)
<b>Sampling Method</b>	Diffusion sampling standard / hand aspirator or motorized pump optional			
<b>Display</b>	Digital LCD displays all four gases simultaneously, with auto backlight			
<b>Preset Alarms (User Adjustable)</b> <b>Overscale alarm (Non-adjustable)</b>	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	Low alarm 19.5% High alarm 23.5% Over alarm 40.0%	1st alarm 10 ppm 2nd alarm 30 ppm TWA alarm 1.0 ppm STEL alarm 5.0 ppm Over alarm 100 ppm	1st alarm 25 ppm 2nd alarm 50 ppm TWA alarm 25 ppm STEL alarm 200 ppm Over alarm 500 ppm
<b>Types of Alarms</b>	Gas Alarm: 2 Increasing alarms, STEL, TWA, overscale alarm. O2 decreasing/increasing. Trouble alarm: Sensor disconnection, low battery, circuit error, calibration range error			
<b>Display of Alarm</b>	Gas Alarm: Flashing LEDs, intermittent buzzer (95 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>	-4°F to 122°F (-20°C ~ +50°C), 0 to 95% RH, non-condensing (splash resistant)			
<b>Response Time</b>	Within 30 seconds (T90)			
<b>Continuous Operation</b>	20 hours after a 3 hour full charge (14 hours after 90 min charge)			
<b>Power Source</b>	Direct charging NiMH batteries, set of 2			
<b>Safety Design / Approvals</b>	IECEX zone 0 Ex ia IIC T4; ATEX II 1G Ex ia IIC T4; (optional MSHA version also available) c CSA US classified, as intrinsically safe. Class I, Division 1, Groups A, B, C, D			
<b>Dimension &amp; Weight</b>	2.7" H x 3" W x 1" D (Approx. 70 H x 75 W x 25 D mm), 4.6 ounces (approx. 130 g)			
<b>Case Material</b>	High impact over molded rubber. Dust and water resistant with IP-67 approval.			
<b>Controls</b>	Two buttons: POWER / MODE, AIR			
<b>Datalogging</b>	Standard with all instruments. Stores 8 alarm trend sessions where readings are recorded 30 minutes before and after an alarm event. 3,600 data point capacity with a log time range of 10 to 300 hours (based on programmable interval times); and stores up to 100 calibration records.			
<b>Required Accessories</b>	Battery charger			
<b>Standard Accessories</b>	Alligator clip ..... 13-0116RK NiMH batteries (set of 2) ..... 49-1609RK Charging station with 115/220 VAC power supply (also available without power supply, 49-2170RK) ..... 49-2170RK-01 Product CD (includes datalogging software) ..... 71-8002RK			
<b>Optional Accessories</b>	Belt Clip ..... 13-0117RK Padded carrying case for GX-2009 and accessories ..... 20-0112RK-01 Charging station, 115/220 VAC powered for 2, 3, 4, or 5 instruments ..... 49-2170RK-XX Charging station with 12 VDC power supply and vehicle adapter plug ..... 49-2171RK 12 VDC adapter with vehicle plug (does not include charger base) ..... 49-2020RK RP-2009 pump with 4" rubber nipple, 10' hose and probe (up to 40' hose available) ..... 81-1177RK RP-6 sample drawing pump with 10' hose and probe (up to 40' hose available) ..... 81-1166RK Hand aspirated sample draw with 10' hose and probe (up to 40' hose available) ..... 81-1160RK USB to IrDA downloading cable ..... 47-5084RK-01 SDM-2009 single calibration station ..... 81-SDM2009-01			
<b>Configurations</b>	• 4 gas, LEL / O2 / H2S / CO • 2 gas, LEL / O2 • Single gas LEL, O2, CO, H2S • 3 gas, LEL / O2 / H2S • 2 gas, O2 / H2S • 3 gas, LEL / O2 / CO • 2 gas, O2 / CO			
<b>Warranty</b>	Two years material and workmanship			

\*Specifications subject to change without notice



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