



# RKI INSTRUMENTS GX-2009

Gas Detection For Life



Actual Size

**World's Smallest and Lightest  
4 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 (95 db @ 30 cm)**
- **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

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

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! 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.

Gas Detected	Combustible Gases (Methane as standard)		Oxygen (O2)		Hydrogen Sulfide (H2S)		Carbon Monoxide (CO)	
Detection Principle	Catalytic combustion		Galvanic cell		Electrochemical cell			
Detection Range (Increments)	0 ~ 100% LEL (1% LEL)		0 ~ 40.0% Vol. (0.1% Vol.)		0 ~ 100.0 ppm (0.5 ppm)		0 ~ 500 ppm (1 ppm)	
Accuracy Statement	± 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)	
Sampling Method	Diffusion sampling standard / hand aspirator or motorized pump optional							
Display	Digital LCD displays all four gases simultaneously, with auto backlight							
Preset Alarms (User Adjustable) Overscale alarm (Non-adjustable)	1st alarm	10% LEL	Low alarm	19.5%	1st alarm	10 ppm	1st alarm	25 ppm
	2nd alarm	50% LEL	High alarm	23.5%	2nd alarm	30 ppm	2nd alarm	50 ppm
	Over alarm	100% LEL	Over alarm	40.0%	TWA alarm	1.0 ppm	TWA alarm	25 ppm
					STEL alarm	5.0 ppm	STEL alarm	200 ppm
					Over alarm	100 ppm	Over alarm	500 ppm
Types of Alarms	Gas Alarm:	2 Increasing alarms, STEL, TWA, overscale alarm. O2 decreasing/increasing.						
	Trouble alarm:	Sensor disconnection, low battery, circuit error, calibration range error						
Display of Alarm	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						
Operating Temp. & Humidity	-4°F to 122°F (-20°C ~ +50°C), 0 to 95% RH, non-condensing (splash resistant)							
Response Time	Within 30 seconds (T90)							
Continuous Operation	20 hours after a 3 hour full charge (14 hours after 90 min charge)							
Power Source	Direct charging NiMH batteries, set of 2							
Safety Design / Approvals	IECEEx 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							
Dimension & Weight	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)							
Case Material	High impact over molded rubber. Dust and water resistant with IP-67 approval.							
Controls	Two buttons: POWER / MODE, AIR							
Datalogging	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.							
Required Accessories	Battery charger							
Standard Accessories	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							
Optional Accessories	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							
Configurations	SDM-2009 single calibration station ..... 81-SDM2009-01							
	• 4 gas, LEL / O2 / H2S / CO				• 3 gas, LEL / O2 / H2S			
	• 2 gas, LEL / O2				• 2 gas, O2 / H2S			
	• Single gas LEL, O2, CO, H2S				• 3 gas, LEL / O2 / CO			
					• 2 gas, O2 / CO			
Warranty	Two years material and workmanship							