



# MSHA PERSONAL FOUR GAS MONITOR

Gas Detection For Life

**GX-2009 MSHA**



Actual Size



**World's Smallest and Lightest  
4 Gas Monitor**

## Features

- **Simultaneous detection of 4 gases**
  - CH<sub>4</sub>, O<sub>2</sub>, NO<sub>2</sub> & CO or CH<sub>4</sub>, 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**
- **Intrinsically safe, MSHA classified**
- **2 year warranty**

## Applications

- Mining
- Underground construction
- Tunneling
- Any application where an MSHA approved gas monitor is required

RKI is proud to offer the smallest and lightest 4-gas monitor with an MSHA rating, the GX-2009 MSHA. Weighing only 4.6 ounces, it fits in the palm of your hand.

The GX-2009 MSHA simultaneously monitors and displays % volume methane, oxygen, carbon monoxide, and nitrogen dioxide. Equipped with 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 glow-in-the dark, 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 10, 8, 7, XP and Vista compatible. To simplify maintenance and record keeping, the GX-2009 MSHA has the SDM-2009 single calibration station available. The SDM-2009 calibration station can operate as a stand-alone system or connect to a computer along with up to 10 other SDM-2009 units.

MSHA (Mine Safety and Health Administration) certification allows the GX-2009 to be used in underground mines, tunnels and excavations under MSHA jurisdiction.

**RKI Instruments, Inc. • 33248 Central Ave. Union City, CA 94587 • Phone (800) 754-5165 • (510) 441-5656 • Fax (510) 441-5650**

World Leader In Gas Detection & Sensor Technology  
www.rkiinstruments.com

# GX-2009 MSHA

<b>Gas Detected</b>	Combustible Gases (Methane as standard)	Oxygen (O2)	Nitrogen Dioxide (NO2)	Carbon Monoxide (CO)	Hydrogen Sulfide (H2S)
<b>Sensor</b>	Catalytic combustion	Galvanic cell	Electrochemical cell		
	NC-6264B	OS-BM2	ES-1826-NO2	ES-1821	ES-1827i
<b>Detection Range (Increments)</b>	0 ~ 5% vol (0.05% vol)	0 ~ 40.0% vol (0.1% vol)	0 ~ 20 ppm (0.1 ppm)	0 ~ 500 ppm (1 ppm)	0 ~ 100.0 ppm (0.5 ppm)
<b>Accuracy Statement</b>	± 5% of reading or ± 0.1% vol (whichever is greater)	± 0.5% O2	± 5% of reading or ± .5 ppm NO2 (whichever is greater)	± 5% of reading or ± 5 ppm CO (whichever is greater)	± 5% of reading or ± 2 ppm H2S (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) Overscale alarm (Non-adjustable)</b>	1st alarm    0.5% vol 2nd alarm    2.5% vol Over alarm    5% vol	Low alarm    19.5% High alarm    23.5% Over alarm    40.0%	1st alarm    1 ppm 2nd alarm    3 ppm TWA alarm    1 ppm STEL alarm    5 ppm Over alarm    20 ppm	1st alarm 2nd alarm TWA alarm STEL alarm Over alarm	25 ppm 50 ppm 25 ppm 200 ppm 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>	MSHA classified				
<b>Size &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 glow in the dark 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
	Hand aspirated sample draw with 10' hose and probe (up to 40' hose available) .....				81-1160RK
	USB to IrDA downloading cable .....				47-5027RK
SDM-2009 single calibration station .....				81-SDM2009-01	
<b>Configurations</b>	• 4 gas, CH4 / O2 / NO2 / CO • 4 gas, CH4 / O2 / H2S / CO		• 3 gas, CH4 / O2 / NO2 • 3 gas, CH4 / O2 / CO	• 2 gas, CH4 / O2	• 1 gas, CH4
<b>Warranty</b>	Two years material and workmanship				

Specifications subject to change without notice.



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## Authorized Distributor: