



MSHA PERSONAL FOUR GAS MONITOR

Gas Detection For Life

MSHA GX-2009



Actual Size



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

Features

- **Simultaneous detection of 4 gases**
 - CH₄, O₂, H₂S & 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 MSHA GX-2009. MSHA (Mine Safety and Health Administration) certification allows this version of the GX-2009 to be used in underground mines, tunnels and excavations under MSHA jurisdiction. Weighing only 4.6 ounces, it fits in the palm of your hand.

The MSHA GX-2009 simultaneously monitors and displays % volume combustibles, oxygen, carbon monoxide, and hydrogen sulfide. 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 8, 7, XP and Vista compatible. To simplify maintenance and record keeping, the MSHA GX-2009 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.

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

MSHA GX-2009

Gas Detected	Combustible Gases (Methane as standard)	Oxygen (O2)	Hydrogen Sulfide (H2S)	Carbon Monoxide (CO)
Sensor	Catalytic combustion	Galvanic cell	Electrochemical cell	
	NC-6264B	OS-BM2	ES-1827i	ES-1821
Detection Range (Increments)	0 ~ 5% vol (0.1% vol)	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 ± 0.1% vol (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 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 10 ppm 2nd alarm 30 ppm TWA alarm 10 ppm STEL alarm 15 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
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	MSHA classified			
Size & 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 glow in the dark 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 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			
Configurations	• 4 gas, CH4 / O2 / H2S / CO • 3 gas, CH4 / O2 / H2S • 2 gas, CH4 / O2 • 1 gas, CH4 • 3 gas, CH4 / O2 / CO			
Warranty	Two years material and workmanship			

Specifications subject to change without notice.



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ISO 9001

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