



# 5 SENSOR SAMPLE DRAW GAS MONITOR

Gas Detection For Life

**GX-2003 Model**



Data Cal 2000



## Features

- Monitors LEL, O<sub>2</sub>, CO, and H<sub>2</sub>S
- 0 to 100% volume Methane (Optional)
- Auto-ranging display of % volume and % LEL
- Internal sample drawing pump with 40 foot range
- Compact size, weighs only 11 ounces
- Vibration, visual, and audible alarms
- Automatic backlight during alarms
- Calibration reminder with lock out option
- Ni-MH or alkaline power source
- Battery pack charges in or out of the instrument
- Quick charge (complete charge in 90 minutes)
- Glove friendly glow in the dark buttons
- Alarm latching or non-latching
- High impact protective rubber boot
- Up to 600 hours of datalogging with alarm trends
- Logs last 20 calibration events
- Autocalibration or single calibration
- TWA and STEL readings with lunch-break mode
- Intrinsically safe, CSA, C/US classified
- 2 year warranty

## Applications

- Utilities
- Personal monitoring
- Confined space entry
- Refineries / petrochemical
- Chemical plants
- Hazardous material
- Water / wastewater treatment
- Fire services
- Mining

Built around our high-quality micro-sensor technology, the GX-2003 is RKI's smallest personal 5-in-1 gas monitor with a built in sample pump. Weighing only 11 ounces, it has many features which set the GX-2003 apart from the competition. For example, it can monitor the standard confined space gases (LEL combustibles, Oxygen content, Carbon Monoxide, and Hydrogen Sulfide), and it can also measure 100% volume Methane and dynamically display either % LEL, or % volume with its auto-ranging ability.

The GX-2003's large LCD display shows all gas readings, battery level, current time, and will automatically backlight in alarm conditions. Each channel has 2 adjustable alarm levels in addition to TWA and STEL readings for Carbon Monoxide and Hydrogen Sulfide. The TWA and STEL readings are equipped with a lunch-break mode, which prevent the average readings from being reset when the unit is turned off. Standard alarm types include vibration, visual, and audible alarms that can be set to latching or non-latching. Controlled by a microprocessor, the GX-2003 continuously checks itself for sensor connections, low battery, circuit trouble, low flow, and calibration errors. The GX-2003 can interchangeably operate on either a Ni-MH battery pack or 3 AA alkaline batteries. The batteries are simple to replace requiring no tools to access the battery compartment. The Ni-MH battery pack can receive a charge directly within the instrument or separately, allowing the unit to remain in service.

The GX-2003 is equipped with datalogging and a sizable memory capacity of up to 600 hours of log time. With this much capacity, the GX-2003 can store 100 alarm events, 100 trouble events, the last 20 calibrations, and up to 8 alarm trends where data is collected automatically every 5 seconds for 30 minutes before and after an alarm occurs. Calibration intervals and reminders are user adjustable and can be set to either go into alarm or to lock the user out of normal measurement mode once a calibration period has expired. Calibrations can be performed automatically or individually in single calibration mode. The GX-2003 is also compatible with the Data Cal 2000 calibration station for simultaneous, automatic service of up to 10 instruments.

# GX-2003 Model

Gas Detected	All Combustible Gases (Methane as standard)	% Volume Methane	Oxygen (O <sub>2</sub> )	Hydrogen Sulfide (H <sub>2</sub> S)	Carbon Monoxide (CO)
<b>Detection Principle</b>	Catalytic combustion	Thermal conductivity	Galvanic cell	Electrochemical cell	Electrochemical cell
<b>Detection Range</b>	0 ~ 100% LEL	0 ~ 100% Vol.	0 ~ 40.0% Vol.	0 ~ 100 ppm	0 ~ 500 ppm
<b>Sampling Method</b>	Internal sample pump, flow rate nominal 0.5 LPM, includes hydrophobic filter				
<b>Display</b>	Digital LCD with 7 segments, auto backlight during alarm				
<b>Preset Alarms (User Adjustable)</b>	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL	N/A	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
<b>Alarms Types</b>	Gas alarms: Trouble alarms:	1st and 2nd (user adjustable), STEL, TWA and OVER sensor connection, low battery, low flow, circuit trouble and calibration error			
<b>Alarm Methods</b>	Gas alarms: Trouble alarms:	flashing lights, two tone buzzer, and vibration flashing lights, trouble displayed, intermittent buzzer, and vibration			
<b>Operating Temp. &amp; Humidity</b>	-20°C to +50°C (-4°F to 122°F), 0 to 85% RH, non-condensing				
<b>Response Time</b>	Within 30 seconds (T90)				
<b>Continuous Operation</b>	Alkaline battery: 14 hours Ni-MH battery: 16 hours				
<b>Power Source</b>	Ni-MH battery pack, direct or separate charge, or 3 "AA" Alkaline dry cell batteries				
<b>Safety Rating</b>	CSA classified, "C/US", as intrinsically safe. Class I, Division 1, Groups A, B, C, D				
<b>Dimension &amp; Weight</b>	Approx. 171 (H) x 65 (W) x 39 (D) mm (5.6" H x 2.5"W x 1.5"D), approx. 310 g (11 ounces)				
<b>Case Material</b>	Dust & splash resistant. RFI shielded high impact plastic with protective rubber boot				
<b>Controls</b>	Five buttons: POWER / ENTER, DISPLAY, AIR, RESET, SHIFT				
<b>Standard Accessories</b>	<ul style="list-style-type: none"> <li>Strap</li> <li>Probe</li> <li>Rubber boot</li> <li>10' hose</li> </ul>		<ul style="list-style-type: none"> <li>Manual</li> <li>Training CD</li> </ul>		
<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>Charger (AC or DC versions)</li> <li>Ni-MH battery</li> <li>Datalogging software</li> </ul>		<ul style="list-style-type: none"> <li>Calibration kit</li> <li>Data Cal 2000 calibration station</li> <li>Sample draw hoses (10' standard, up to 40' max. available)</li> </ul>		
<b>Special Functions</b>	<ul style="list-style-type: none"> <li>Manual back light LCD (automatic at alarm)</li> <li>STEL, TWA</li> <li>Peak hold</li> <li>Continuous display of current time</li> <li>Autocalibration or single calibration</li> </ul>		<ul style="list-style-type: none"> <li>Datalogging (up to 600 hours)</li> <li>Alarm trend data for last 8 alarms</li> <li>Direct charging in just 90 minutes (Ni-MH version)</li> <li>Calibration reminder and lock out</li> </ul>		
<b>Configurations</b>	5 sensors, % Vol / LEL / O <sub>2</sub> / CO / H <sub>2</sub> S 4 sensors, LEL / O <sub>2</sub> / H <sub>2</sub> S / CO 4 sensors, % Vol / LEL / O <sub>2</sub> / H <sub>2</sub> S 4 sensors, % Vol / LEL / O <sub>2</sub> / CO 3 sensors, LEL / O <sub>2</sub> / H <sub>2</sub> S 3 sensors, LEL / O <sub>2</sub> / CO 3 sensors, LEL / H <sub>2</sub> S / CO		3 sensors, % Vol / LEL / O <sub>2</sub> 3 sensors, LEL / O <sub>2</sub> / CO 2 sensors, LEL / O <sub>2</sub> 2 sensors, LEL / H <sub>2</sub> S 2 sensors, LEL / CO 2 sensors, O <sub>2</sub> / H <sub>2</sub> S		1 sensors, LEL 1 sensors, %Vol 1 sensors, O <sub>2</sub>
<b>Warranty</b>	Two years material and workmanship				

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