



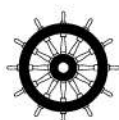
**RKI** Analytical  
Instruments  
The Analyser People

# GX-2009

## Personal Four Gas Monitor

smallest  
4-Gas-Monitor  
in the world

H<sub>2</sub>S CO HC O<sub>2</sub>



### Features

- Simultaneous and real-time detection of H<sub>2</sub>S, CO, HC and O<sub>2</sub>
- Visual, audible and vibration alarm
- Password protected calibration mode, auto calibration
- Data logger standard
- IP-67: waterproof and dust proof design
- Impact resistant and RFI shielded over-mold body
- ATEX and MED (Wheelmark) approved



**RIKEN KEIKI**  
For a Safer World

## Overview

The GX-2009 represents the latest evolution of gas detection technology. Advancements include dual audible alarm ports and alarm LED's on 3 sides, so that alarm conditions are obvious from multiple perspectives especially in high noise environments. Other features include an impact and RFI resistant

rubber over-mold body that is a waterproof and dust proof with IP 67 rating. Additionally, a large capacity data logging system is a standard feature. In conclusion, GX-2009 is the smallest and lightest 4-gas monitor in the world and is perfect suitable for all applications you can think of.

### IR communication

Data logging standard

### LCD display

Simultaneous display of all gases

### Buzzer holes

Loud and clear sound (95dB in 30cm distance)

### Sensor housing

Easy to access, uncomplicated maintenance

### 3 Alarm LEDs

In addition to powerful vibration alarm, viewable from 3 sides

### Over-mold body

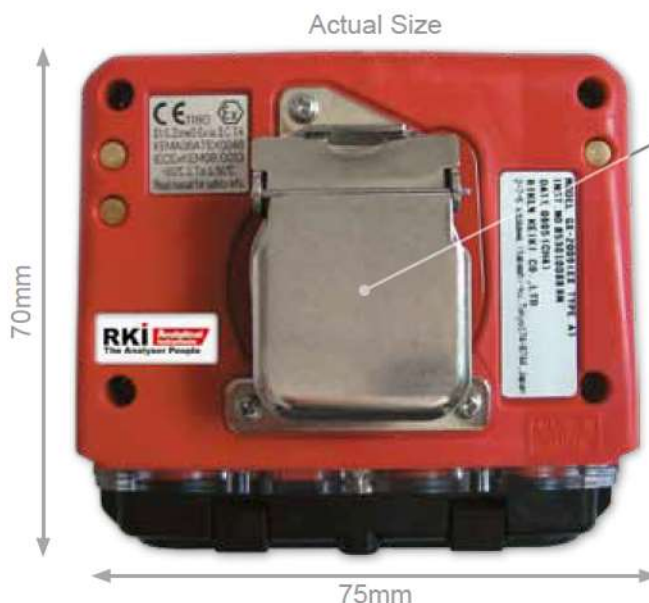
Dust & water proof, IP67 rating

### 2 button operation

Glove friendly, glow-in-the-dark

### NiMH batteries

Rechargeable, 180 min. fast charge mode



### Crocodile Clip

- Solid but thin
- 360° clip
- Clicks in place with 45° steps





## LCD Display

### Measurement mode



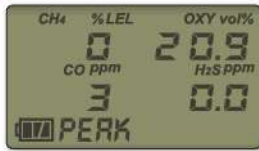
### Next calibration



### Battery voltage



### PEAK



### STEL



### TWA



## Applications

- Fire-fighting
- Personal monitoring
- Confined spaces
- Water / wastewater treatment
- Pharmaceuticals
- Semiconductor industry
- Hazardous material
- Chemical plants
- Refineries / petrochemical industry
- Hazardous freights
- Utilities
- Mining
- Shipping

## IrDA Communication



The built-in data logger allows you to record up to 40 hrs of measurement data and save it to the internal memory. The optional data logger software is Windows® XP and Vista compatible. Consequently, you can also transmit the data wirelessly by infrared to a PC to be able to analyze prior hazardous situations.

## Password Protection



Because of the GX-2009 security features you are secured from accidental misconfigurations or missed calibrations, which may influence measurement mode in a negative way and endanger the user. Calibration intervals and reminders are user adjustable and all critical adjustments can be password protected.

## Optional Accessories



**Charging Station**  
Combine up to 5 pcs. for multi-charger



**Data Logging Kit**  
incl. IrDA dongle and data logger software



**Telescope type probe**  
Extendable sampling probe



**Hand aspirator kit**  
Pump for manual sample drawing



**RP-6 pump**  
Sampling pump with battery- and flow alarm



**DC-2000\_2009**  
Calibration + charging station, data transfer



**Calibration gas**  
Calibration set also available



**Protection case**  
For GX-2009 and accessories



**Extensive service program**

## Description

RKI is proud to offer the smallest 4-gas monitor in the world, the GX-2009. Weighing only 130g, GX-2009 simultaneously monitors combustibles, oxygen, carbon monoxide, and hydrogen sulfide.

Vibration alarm, auto calibration, data logging, and it even tells the time!

All of these controls and features are operated through 2 simple glow in the dark buttons.

Other standard features are vibration alarm, auto calibration, calibration lock out or reminder control, STEL/TWA readings and peak hold <sup>\*)</sup>. The GX-2009 is designed around the world's smallest gas sensors, manufactured with the same high quality control that has made RIKEN KEIKI sensors and instruments the most reliable and long lasting monitoring devices in the industry.

## Models

4 Gas	Type A	HC O <sub>2</sub> H <sub>2</sub> S CO
	Type B	HC O <sub>2</sub> H <sub>2</sub> S
3 Gas	Type C	HC O <sub>2</sub> CO
	Type D	HC O <sub>2</sub>
2 Gas	Type E	O <sub>2</sub> H <sub>2</sub> S
	Type F	O <sub>2</sub> CO

<sup>\*)</sup> PEAK = Peak Value  
TWA = Time Weighted Average of the last 8 hours  
STEL = Short Term Exposure Limit, average of the last 15 minutes

## Specifications

Model	GX-2009							
Measuring gas	HC Combustible gases		O <sub>2</sub> Oxygen		H <sub>2</sub> S Hydrogen sulfide		CO Carbon monoxide	
Measuring range	0-100% LEL		0-40% vol		0-100 ppm		0-500 ppm	
Resolution	1% LEL		0.1% vol		0.5 ppm		1 ppm	
Detection principle	Catalytic combustion		Galvanic cell		Electrochemical cell			
Sampling method	Diffusion							
Display	Simultaneous display of all measuring gases. Digital LCD display, auto backlight at alarm display.							
Alarm indication	Flashing LEDs, intermittent buzzer (95dB in 30cm distance), flashing gas value, vibration, error message							
Alarm preset (User adjustable)	1. Alarm 2. Alarm Over Range	10% LEL 50% LEL 100% LEL	1. Alarm 2. Alarm Over Range	19.5% vol 23.5% vol 40.0% vol	1. Alarm 2. Alarm Over Range	10,0 ppm 30.0 ppm 100.0 ppm	1. Alarm 2. Alarm Over Range	25.0 ppm 50.0 ppm 500 ppm
Types of alarm	Gas alarm: Trouble alarm:		2 preset alarms, STEL, TWA, over scale alarm sensor disconnection, wire disconnection, low battery, circuit error, calibration range error					
Functions	<ul style="list-style-type: none"><li>• Manual backlight LCD (automatic at alarm)</li><li>• IrDA port</li><li>• STEL, TWA and Peak hold</li><li>• Auto calibration, alarm trend, continuous display of current time</li></ul>							
Datalogger	Stores 8 alarm trend events: 3600 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.							
Operating temp. & humidity	-20°C to +50°C, 0 to 95% RH (non-condensing)							
Response time	30s (T <sub>90</sub> )							
Continuous operation	20 hours after a 3 hour full charge (14 hours after 90 min charge)							
Power source	Direct charging Ni-MH battery pack							
Ingress proof rating	IP67							
Safety rating	Ⓔ II 1G Exia II CT4 IECEx Zone 0 Exia II CT4 CSA pending MED (Wheel Mark)							
Dimensions and weight	Approx. 70 x 75 x 25 mm, 130g							
Accessories	Standard: wrist strap, crocodile clip Optional: battery charger, hand aspirator, pump RP-6, protection case Windows® data logger software, calibration gas							

Specifications subject to change without notice.



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