

# FOUR GAS PERSONAL MONITOR MODEL GX-2009



#### **World Smallest 4 Gas Monitor**

Approx.  $70 (H) \times 75 (L) \times 25 (D) mm$ , 130g [2.76"H $\times$ 2.95"L $\times$ 1.00"D, 4.6 oz]

#### APPROVALS -

- ATEX II 1G Ex ia IIC T4
- IECEx Zone 0 Ex ia IIC T4
- CSA Intrinsically safe, class I, Division I, Groups A, B, C, D
- · CE
- JML Ex ia IIC T4

#### **FEATURES**

- Simultaneous and real-time detection of 4 gases LEL, O<sub>2</sub>, H<sub>2</sub>S & CO
- Large simultaneous display for 4 gases
- Water and dust resistant, IP67
- Loud alarm buzzer 95dB at 30cm.
- 3 bright LED alarm windows
- Rechargeable Ni-MH battery pack
- Continuous operation for up to 20 hours
- Built in shock-resistant coating
- RFI shielded housing
- Vibration alarm
- Datalogging standard
- Auto-calibration
- STEL and TWA readouts
- Peak hold readout
- Continuously displays current time

#### APPLICATION

- Confined Space
- Refineries/Petrochemical
- Utilities
- Chemical Plants
- Hazardous Material
- Water/Wastewater Treatment
- Fire Services
- Mining
- Pharmaceuticals

RIKEN KEIKI is proud to offer the smallest 4-gas monitor in the world, the Model GX-2009. Weighing only 130g (4.6 ounces) and about the size of a pager (70 (H) ×75 (L) ×25 (D) mm), the GX-2009 simultaneously monitors combustibles, oxygen, carbon monoxide, and hydrogen sulfide. The GX-2009 is armed with standard features like a vibrating alarm, autocalibration, datalogging, and it even tells the time! All of these controls and features are operated through 2 simple buttons. Utilizing the standard charger, the Ni-MH battery pack will operate for 20 hours and fully recharge in 180 minutes. Also available is the datalogging software program which is Windows XP and Vista compatible. The GX-2009 is also compatible with the Data Cal 2000 instrument maintenance system and SM-2009U single calibration station. The GX-2009 is designed around the world's smallest gas sensors. Utilizing catalytic combustion, electrochemical and galvanic sensor technologies, each miniaturized sensor is manufactured by RIKEN KEIKI with the same high quality control that has made our sensors and instruments the most reliable and long lasting monitoring devices in the industry.







# **COMPONENT DESIGNATIONS**

Model GX-2009 has advanced features including large LCD which can display 4-gas concentrations, current time, and battery indicator simultaneously. Extra loud alarm buzzer, three bright LED lamps and IP67 water and dust proof construction with built in impact resistant protective cover. All controls and features are operated by 2 buttons.





# **Display screen examples**

#### ▲ Normal measurement



▲ TWA screen



A Peak screen



**▲ STEL screen** 

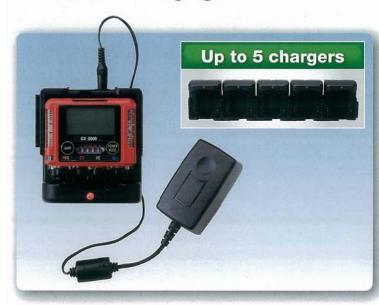


# **GX-2009** gas combination available

Four gases	Type A	LEL / O2 / H2S / CO	
Three gases	Type B	LEL/ 02 / H2S	
	Type C	LEL / O2 / CO	
Two gases	Type D	LEL / O2	
	Type E	H <sub>2</sub> S / O <sub>2</sub>	
	Type F	CO / O2	

Please specify gas combination when ordering.

# **Extendable charging station**



# Data logger download via IrDA communication



### **Accessories**







Gas detected	Combustible gases	Oxygen (O <sub>2</sub> )	Hydrogen sulfide (H <sub>2</sub> S)	Carbon monoxide (CO)		
Detection principle	Catalytic combustion	Galvanic cell	nic cell Electro-chemical cell			
Detection range (Increments)	0-100%LEL (1%LEL)	0-40%VOL (0.1%VOL)	0-100.0ppm (0.5ppm)	0-500ppm (1ppm)		
Sampling method	Diffusion					
Display	Simultaneous display. Digital LCD with segments, auto backlight at alarm display.					
Alarm sounds	95dB at 30cm					
Preset alarms (User adjustable)	1st alarm 10%LEL 2nd alarm 50%LEL Over alarm 100%LEL	Low alarm 19.5%Vol High alarm 23.5%Vol Over alarm 40.0%Vol	1st alarm 10.0ppm 2nd alarm 30.0ppm TWA alarm 10.0ppm STEL alarm 15.0ppm Over alarm 100.0ppm	1st alarm 25.0ppm 2nd alarm 50.0ppm TWA alarm 25.0ppm STEL alarm 200ppm Over alarm 500ppm		
Types of alarms	Gas alarms : 2 preset alarms, STEL, TWA, overscale alarm Trouble alarms : Sensor disconnection, low battery, circuit error, calibration range error					
Display of alarm	Gas alarms: Flashing LEDs, intermittent buzzer, Flashing gas value, vibration Trouble alarms: Flashing LEDs, intermittent buzzer, display of error message					
Functions	Manual backlight LCD (Automatic at alarm) Data logging STEL, TWA Peak hold Alarm trend Direct charging Continuous display of current time Autocalibration					
Output signal type	IrDA for Data logger					
Operating temp.&humidity	-20°C to +50°C (-4 to 122°CF), 0 to 95%RH, non-condensing					
Response time	Within 30 seconds (T90)					
Continuous operation	Up to 20 hours after full charge (Up to 14 hours after 90 min charge)					
Power source	Direct charging Ni-MH battery pack, (can be fast charged in just 180 min)					
Case materials	Rubber coated polycarbonate					
Ingress Proof Rating	IP67					
Safety design/Approvals	· ATEX → II 1G Ex ia IIC T4 · IECEx Zone 0 Ex ia IIC T4 · CSA Intrinsically safe, class I, Division I, Groups A, B, C, D · C ← · JML Ex ia IIC T4					
Dimensions & Weight	Approx. 70 (H) ×75 (L) × 25 (D) mm (2.76"H×2.95" L×1.00"D) Approx. 130g (4.6 ounces)					
Controls	Two buttons : POWER/MODE, AIR					
Standard accessories	(1) Wrist strap (2) Alligator clip (3) Battery charger					
Optional accessories	(1) Hand aspirator sampling kit (2) Sample-draw pump model RP-6 (3) Data logger management program (4) Extension connector for chargers (5) Single point calibration station SM-2009U					

Specifications subject to change without notice.

#### NOTE:

STEL=Short Term Exposure Limit TWA=Time Weighted Average L E L=Lower Explosive Limit ppm=Parts Per Million

★ Distributed by:

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