

RIKEN

FOUR GAS PERSONAL MONITOR

MODEL GX-2009

NEW



World Smallest 4 Gas Monitor

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

APPROVALS

- ATEX® II 1G Ex ia IIC T4
- IECEx Zone 0 Ex ia IIC T4
- CSA Approval (Pending)
- CE
- JML Approval (Pending)

FEATURES

- Simultaneous and real-time detection of 4 gases LEL, O₂, H₂S & 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.



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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.

LCD display

Large, simultaneous 4 gas display.

LEL

Alarm lamps

Three bright LED indications with powerful vibration alarm

CO

H₂S

Audible alarm

Loud distinct tone with two honeycomb buzzer openings. 95dB at 30cm distance

Switches

Easy operation with two switches

Sensor block

O₂

Top view



Rear view



Side view



Bottom view



Solid low profile, 360-degree clip

Display screen examples

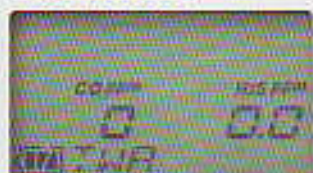
▲ Normal measurement



▲ Peak screen



▲ TWA screen



▲ STEL screen



GX-2009 gas combination available

| | | |
|-------------|--------|--|
| Four gases | Type A | LEL / O ₂ / H ₂ S / CO |
| Three gases | Type B | LEL / O ₂ / H ₂ S |
| | Type C | LEL / O ₂ / CO |
| Two gases | Type D | LEL / O ₂ |
| | Type E | H ₂ S / O ₂ |
| | Type F | CO / O ₂ |

Please specify gas combination when ordering.

Extendable charging station



Data logger download via IrDA communication



Accessories

Standard accessories



Optional accessories

Charger BC-2009
AC adaptor for charger BC-2009



Joint for charger extension



Pump unit
Model RP-6




Hand aspirator
sampling kit



GX-2009 data logger
management program

MODEL GX-2009

| | | | | |
|--|--|--|--|---|
| Gas detected | All combustible gases | Oxygen (O ₂) | Hydrogen sulfide (H ₂ S) | Carbon monoxide (CO) |
| Detection principle | Catalytic combustion | Galvanic 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 (40hours) 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°F), 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 | <ul style="list-style-type: none"> · ATEX  II 1G Ex ia IIC T4 · IECEx Zone 0 Ex ia IIC T4 · CSA Approval (Pending) · CE · JML Approval (Pending) | | | |
| 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 | | | |
| Warranty | One year material and workmanship | | | |
| Standard accessories | (1) Wrist strap (2) Alligator clip | | | |
| Optional accessories | (1) Battery charger (2) Hand aspirator sampling kit (3) Sample-draw pump model RP-6 (4) Data logger management program (5) Extension connector for chargers | | | |

Specifications subject to change without notice.

NOTE :

STEL=Short Term Exposure Limit

TWA=Time Weighted Average

LEL=Lower Explosive Limit

ppm=Parts Per Million



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