

# PORTABLE MULTI GAS MONITOR

## MODEL GX-8000



### ◆ Application

- Confined space
- Refineries/Petrochemical/Chemical plants
- Oil tanker/Gas carrier/Bulk carrier
- Chemical tanker
- Water/Wastewater treatment
- Fire services
- Telecommunication services
- Power plant
- Gas plant/Gas supplier services
- Utilities
- Coating field
- Fuel cell facilities

### ◆ Features

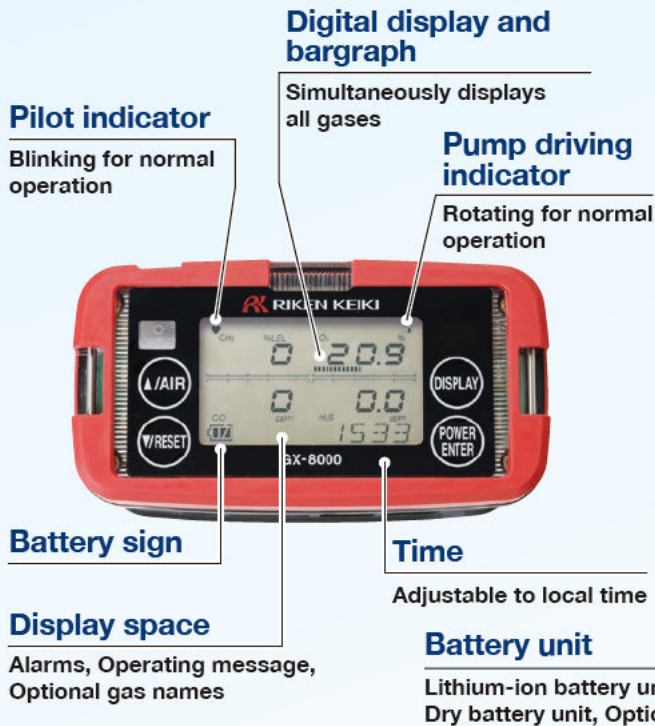
- Real-time detection of max. 5 ranges Combustibles 100vol% / 100%LEL, O<sub>2</sub>, H<sub>2</sub>S & CO
- Large simultaneous display with auto back lighting
- Strong sample drawing capability
- Loud alarm buzzer with 95dB
- 3 bright LED alarm windows
- ATEX Exia II CT4 approved / MED approved
- Water and dust resistant IP67
- Lithium-ion rechargeable battery
- Compact and light weight
- Ergonomic design with waist strap for hands free operation
- Datalogging standard

# COMPONENT DESIGNATIONS

The GX-8000 sets the new industry standard for rugged, reliable portable gas detection. It's tough, water proof design utilized features based on years of gas detection design experience, to assure that the instrument will operate properly to protect workers and property in all kinds of harsh gas detection applications.



## Display screen example



## Side view



## Rear view



## Direct readout combustibles

| Standard                                    | LEL     | Detection range     |
|---|---------|---------------------|
| iso-Butane i-C <sub>4</sub> H <sub>10</sub> | 1.8vol% | 0-100%LEL/0-100vol% |
| Methane CH <sub>4</sub>                     | 5.0vol% | 0-100%LEL/0-100vol% |
| Hydrogen H <sub>2</sub>                     | 4.0vol% | 0-100%LEL/0-100vol% |
| Acetylene C <sub>2</sub> H <sub>2</sub>     | 1.5vol% | 0-100%LEL           |

NOTE : Available gas combinations for Hydrogen(H<sub>2</sub>) : Type E & Type G  
for Acetylene(C<sub>2</sub>H<sub>2</sub>) : Type C & Type F

## Data logger download via IrDA communication



## GX-8000 gas combinations available

|                            |        | Combustibles<br>0-100vol% | Combustibles<br>0-100%LEL | O <sub>2</sub><br>0-40.0% | H <sub>2</sub> S<br>0-100.0ppm | CO<br>0-500ppm |
|----------------------------|--------|---------------------------|---------------------------|---------------------------|--------------------------------|----------------|
| Four gases/<br>Five ranges | Type A | ●                         | ●                         | ●                         | ●                              | ●              |
| Four gases                 | Type B |                           | ●                         | ●                         | ●                              | ●              |
| Three gases                | Type C |                           | ●                         | ●                         | ●                              |                |
|                            | Type D |                           | ●                         | ●                         |                                | ●              |
| Two gases/<br>Three ranges | Type E | ●                         | ●                         | ●                         |                                |                |
| Two gases                  | Type F |                           | ●                         | ●                         |                                |                |
|                            | Type G |                           | ●                         | ●                         |                                |                |

Available gas combinations for Hydrogen(H<sub>2</sub>) : Type E & Type G, for Acetylene (C<sub>2</sub>H<sub>2</sub>) : Type C & Type F.  
Please specify gas combinations when ordering.

# Specifications

# MODEL GX-8000

| Target gas                           | Combustibles<br>(CH <sub>4</sub> , i-C <sub>4</sub> H <sub>10</sub> , H <sub>2</sub> , others)  |   | Oxygen<br>(O <sub>2</sub> )                             | Hydrogen sulfide<br>(H <sub>2</sub> S)  | Carbon monoxide<br>(CO)   |
|--------------------------------------|---|---|---|---|---|
| <b>Detection principle</b>           | Thermal conductivity  | New ceramic catalytic                         | Galvanic cell   | Electrochemical   | Electrochemical   |
| <b>Detection range (Increments)</b>  | 0-100vol%<br>(1vol%)  | 0-100%LEL<br>(1%LEL)                          | 0-40.0%<br>(0.1%)                                       | 0-100.0ppm<br>(0.5ppm)  | 0-500ppm<br>(1ppm)  |
| <b>Gas alarm</b>                     | N/A   | 1st : 10%LEL<br>2nd : 50%LEL<br>OVER: 100%LEL | Low alarm : 19.5%<br>High alarm : 23.5%<br>OVER : 40.0% | 1st : 5.0ppm<br>2nd : 30.0ppm<br>TWA : 10.0ppm<br>STEL : 15.0ppm<br>OVER : 100.0ppm | 1st : 25ppm<br>2nd : 50ppm<br>TWA : 25ppm<br>STEL : 200ppm<br>OVER : 500ppm |
| <b>Types of alarm</b>                | Gas alarm : Latching, 2 alarms<br>Failure alarm : Flow failure, Sensor failure, Battery failure, Circuit failure, Calibration failure   |   |   |   |   |
| <b>Display of alarm</b>              | LED : LED's flash<br>Buzzer : Buzzer sounds alternating between a low and high pitch<br>Visual indication : Indication value flashes. Alarm message displays and flashes.   |   |   |   |   |
| <b>Alarm sound</b>                   | More than 95dB (A) at 30cm  |   |   |   |   |
| <b>Display</b>                       | Digital LCD with auto backlight<br>Digital display (7 segments) and digital bargraph (25 segments)  |   |   |   |   |
| <b>Sampling method</b>               | Sample Draw, Minimum 0.75L/min  |   |   |   |   |
| <b>Power source</b>                  | Lithium-ion battery, Standard (3 hours for a full charge)<br>AA Alkaline battery (3pcs), Option   |   |   |   |   |
| <b>Continuous operation</b>          | Lithium-ion battery : more than 12 hours<br>AA Alkaline battery : more than 6 hours   |   |   |   |   |
| <b>Operating temp &amp; humidity</b> | -20~+50°C, -4~+122°F below 95%RH (Non-condensing)   |   |   |   |   |
| <b>Dimensions &amp; Weight</b>       | Approx. 154(W) × 81(H) × 127(D) mm, Approx. 1.1kg<br>Approx. 6.1"(W) × 3.1"(H) × 5.0"(D), Approx. 2.4lb   |   |   |   |   |
| <b>Ingress proof rating</b>          | Equivalent to IP67  |   |   |   |   |
| <b>Explosion proof class</b>         | II 1G Ex ia IIC T4 Ga   |   |   |   |   |
| <b>Approvals</b>                     | IECEX, ATEX, TIIS<br>MED, HK, CE Marking<br>Complying to IEC60079-29-1  |   |   |   |   |
| <b>Additional features</b>           | Indication to show energizing (pilot indicator and pump driving indicator), "Activating confirmation beep and LED's flash (every one min)" Pump stop function, Bump test function, IrDA communication, Data logger, Password protection |   |   |   |   |

Specifications subject to change without notice.

## Standard accessories

- AC powered charger  
(Input : AC100V~AC240V, 50/60Hz)  
(Output : DC12V, 1.25A)
- Gas sampling probe
- Gas sampling hose (Spiral 1m)
- Lithium-ion battery unit BUL-8000
- Neck/shoulder strap

## Optional accessories

- Dry battery unit BUD-8000
- Gas sampling hose 8m with float type sampling head
- Gas sampling hose 30m with plummet
- Telescopic sampling rod  
(9step : 3.0m / 2step : 0.72m)
- Filter tube
- Junction tube
- Gas diluting probe with sampling hose (Spiral 1m)
- Waist strap
- Sampling probe holder on the neck/shoulder strap
- Leather carrying case
- Storage box for marine use
- Carrying box
- Calibration gas set
- Flow control demand valve
- Datalogging software

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