



# PORTABLE SINGLE GAS MONITOR

## MODEL GX-8000 series

### MODEL GX-8000 LEL

CH<sub>4</sub>, i-C<sub>4</sub>H<sub>10</sub>, H<sub>2</sub>  
Combustibles in  
air/ 0-100%LEL



### MODEL GX-8000 O<sub>2</sub>

O<sub>2</sub> in air / 0-40%

### Features

- ATEX Exia IIC T4 approved
- Water and dust resistant IP67
- Loud alarm buzzer with 95dB
- Strong sample drawing capability (0.75L/min)
- Digital display & digital bargraph
- 3 bright LED alarm windows
- Datalogging standard
- Ergonomic design with waist strap for hands free operation (option)
- Lithium-ion rechargeable battery (option)



ISO 9001 250R-007  
ISO 14001 97ER-005  
TOKYO PLANT • OREGAWA MANUFACTURING  
DIVISION • HAKODATE FACTORY

**RIKEN KEIKI**

# Specifications

# MODEL GX-8000 series

| Model                           | GX-8000 LEL                                                                                                                                                                                                                               |  | GX-8000 O <sub>2</sub>                                                               |  |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|
| Target gas                      | Combustibles in air<br>(CH <sub>4</sub> , i-C <sub>4</sub> H <sub>10</sub> , H <sub>2</sub> , n-C <sub>6</sub> H <sub>10</sub> , C <sub>7</sub> H <sub>8</sub> , others)<br>Specify one gas when ordering.                                |  | Oxygen in air & inert<br>(O <sub>2</sub> )                                           |  |
| Detection principle             | Catalytic combustion                                                                                                                                                                                                                      |  | Galvanic cell                                                                        |  |
| Detection range<br>(Increments) | 0-100%LEL<br>(1%LEL)                                                                                                                                                                                                                      |  | 0-40.0%<br>(0.1%)                                                                    |  |
| Gas alarm                       | 1st : 10%LEL<br>2nd : 50%LEL                                                                                                                                                                                                              |  | Low alarm : 19.5%<br>High alarm : 23.5%                                              |  |
| Types of alarm                  | Gas alarm : Latching, 2 alarms<br>Failure alarm : Flow failure, Sensor failure, Battery failure, Circuit failure, Calibration failure                                                                                                     |  |                                                                                      |  |
| Display of alarm                | 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.                                                                 |  |                                                                                      |  |
| Alarm sound                     | More than 95dB (A) at 30cm                                                                                                                                                                                                                |  |                                                                                      |  |
| Display                         | Digital LCD with auto backlight<br>Digital display (7 segments) and digital bargraph (50 segments)                                                                                                                                        |  |                                                                                      |  |
| Sampling method                 | Sample draw, Minimum 0.75L/min                                                                                                                                                                                                            |  |                                                                                      |  |
| Power source                    | AA Alkaline battery (3pcs) : Standard<br>Lithium-ion battery : Option (3 hours for a full charge)                                                                                                                                         |  |                                                                                      |  |
| Continuous operation            | AA Alkaline battery : more than 6 hours<br>Lithium-ion battery : more than 12 hours                                                                                                                                                       |  | AA Alkaline battery : more than 12 hours<br>Lithium-ion battery : more than 20 hours |  |
| Operating temp & humidity       | -20~+50°C, -4~+122°F below 95%RH (Non-condensing)                                                                                                                                                                                         |  |                                                                                      |  |
| Dimensions & Weight             | Approx. 154(W) × 81(H) × 127(D) mm, Approx. 0.9Kg(Alkaline battery)/1.0Kg(Lithium-ion battery)<br>Approx. 6.1"(W) × 3.1"(H) × 4.9"(D), Approx. 2.0lb (Alkaline battery) / 2.2lb (Lithium-ion battery)                                     |  |                                                                                      |  |
| Ingress proof rating            | Equivalent to IP67                                                                                                                                                                                                                        |  |                                                                                      |  |
| Explosion proof                 | Intrinsically safe Exia II CT4                                                                                                                                                                                                            |  |                                                                                      |  |
| Approvals                       | IECEX, ATEX, TIIS, MED, HK, CE mark<br>Complying to IEC60079-29-1                                                                                                                                                                         |  |                                                                                      |  |
| Additional features             | Indication to show energizing (pilot indicator and pump driving indicator), Activating confirmation beep and LED's flash (every one minute), Pump stop function, Bump test function, IrDA communication, Data logger, Password protection |  |                                                                                      |  |

Specifications subject to change without notice

## Standard accessories

- Dry battery unit BUD-8000
- AA Alkaline battery (3pcs)
- Gas sampling probe
- Gas sampling hose (Spiral 1m)
- Neck/shoulder strap
- Instruction manual

## Optional accessories

- Lithium-ion battery unit BUL-8000
- AC powered charger  
(Input : AC100V~AC240V, 50/60Hz)  
(Output : DC12V, 1.25A)
- Gas sampling hose 8m with float type sampling head
- Gas sampling hose 30m with plummet
- Telescopic sampling probe  
(2step : 0.72m / 9step : 3.0m)
- Filter tube
- Junction tube
- Waist strap
- Sampling probe holder on the neck/shoulder strap
- Leather carrying case
- Carrying box
- Calibration gas set
- Flow control demand valve
- Datalogging software

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