

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, O₂, H₂S & 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

RIKEN KEIKI Co., Ltd.

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.

LCD display

Large display shows all gases simultaneously



Alarm lamps

Three bright LED indications

Audible alarm

Loud distinct tone, 95dB with two openings

Switches

Easy operation and control with four switches

IrDA port

Combustible
(100vol%)

Combustible
(100%LEL)

Waist strap fitting

Optional



CO

Sample gas inlet

Sample gas outlet

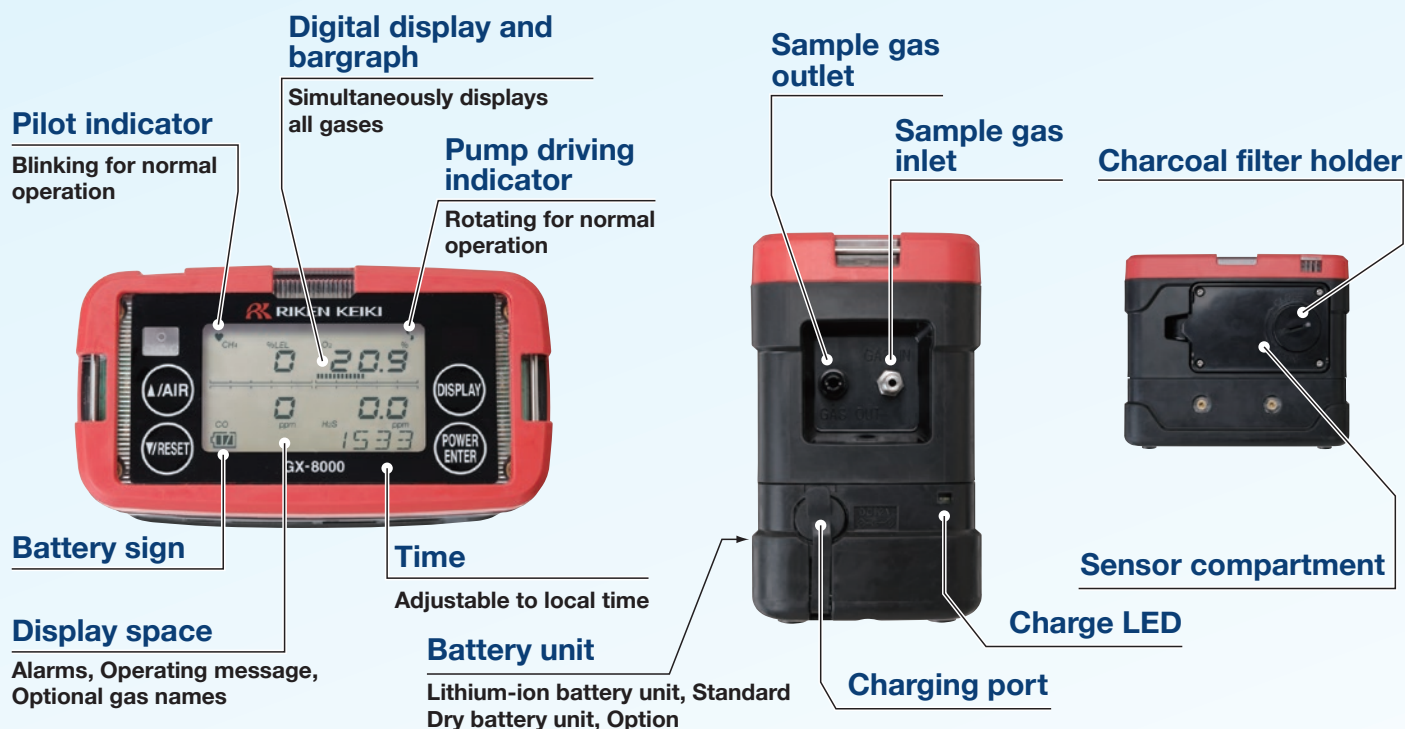
Charging port



Display screen example

Side view

Rear view



Direct readout combustibles

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

NOTE : Available gas combinations for Hydrogen(H₂) : Type E & Type G
for Acetylene(C₂H₂) : Type C & Type F

Data logger download via IrDA communication



GX-8000 gas combinations available

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

Available gas combinations for Hydrogen(H₂) : Type E & Type G, for Acetylene (C₂H₂) : Type C & Type F.
Please specify gas combinations when ordering.

Specifications

MODEL GX-8000

Target gas	Combustibles (CH ₄ , i-C ₄ H ₁₀ , H ₂ , others)		Oxygen (O ₂)	Hydrogen sulfide (H ₂ S)	Carbon monoxide (CO)
Detection principle	Thermal conductivity	New ceramic catalytic	Galvanic cell	Electrochemical	Electrochemical
Detection range (Increments)	0-100vol% (1vol%)	0-100%LEL (1%LEL)	0-40.0% (0.1%)	0-100.0ppm (0.5ppm)	0-500ppm (1ppm)
Gas alarm	N/A	1st : 10%LEL 2nd : 50%LEL OVER: 100%LEL	Low alarm : 19.5% High alarm : 23.5% OVER : 40.0%	1st : 5.0ppm 2nd : 30.0ppm TWA : 10.0ppm STEL : 15.0ppm OVER : 100.0ppm	1st : 25ppm 2nd : 50ppm TWA : 25ppm STEL : 200ppm OVER : 500ppm
Types of alarm	Gas alarm : Latching, 2 alarms Failure alarm : Flow failure, Sensor failure, Battery failure, Circuit failure, Calibration failure				
Display of alarm	LED : LED's flash Buzzer : Buzzer sounds alternating between a low and high pitch Visual indication : Indication value flashes. Alarm message displays and flashes.				
Alarm sound	More than 95dB (A) at 30cm				
Display	Digital LCD with auto backlight Digital display (7 segments) and digital bargraph (25 segments)				
Sampling method	Sample Draw, Minimum 0.75L/min				
Power source	Lithium-ion battery, Standard (3 hours for a full charge) AA Alkaline battery (3pcs), Option				
Continuous operation	Lithium-ion battery : more than 12 hours AA Alkaline battery : more than 6 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. 1.1kg Approx. 6.1"(W) × 3.1"(H) × 5.0"(D), Approx. 2.4lb				
Ingress proof rating	Equivalent to IP67				
Explosion proof class	II 1G Ex ia IIC T4 Ga				
Approvals	IECEX, ATEX, TIIS MED, HK, CE Marking 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 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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