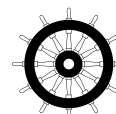**RKi** **Analytical Instruments**
The Analyser People

GX-8000

Portable 5-Gas Monitor
With Sample Drawing

O₂ HC CO H₂S

Features

- **Real-time 5-gas detection with simultaneous display**
- **Visual and audible alarm**
- **Strong sample drawing capacity**
- **Password protected, auto calibration**
- **Datalogging standard**
- **IP-67: waterproof and dust proof design**
- **ATEX and MED (Wheelmark) approved**

RK **RIKEN KEIKI**
For a Safer World

Overview

The GX-8000 sets a new 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.

The integrated pump with 0,75 ℓ/min suction flow lets you take samples from up to 30 m.

On top of that, GX-8000 configuration is also very versatile due to the simple sensor replacement. Additionally, alarm levels are freely adjustable adjusted to your needs.

Combining all relevant certifications, such as MED (Wheelmark) and ATEX (Ex), GX-8000 is a perfect tool for marine applications.

Additional features include the large LCD screen with simultaneous display of up to 5 ranges, time,

live test and battery status. The display in addition to a loud and clear buzzer and 3 alarm LED's gives you full overview at all times so that alarm conditions are obvious from multiple perspectives, especially in high noise environments.
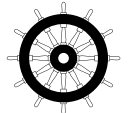
The GX-8000 features a waterproof and dust proof design with IP 67 rating for which the over-mold body is impact resistant and RFI shielded. Consequently, GX-8000 offers full protection while minimizing large instrument fleets because of its functionality.

The built-in infrared port with standard datalogger features lets you store, download and analyze measurement data for perfect traceability.

And because of the wide accessory range you can also customize the GX-8000 for special applications and to fit your individual requirements.

GX-8000

Portable 5-Gas Monitor With Sample Drawing

O_2 HC   CO H_2S

3 Alarm-LEDs
viewable from 3 sides

LCD display
Simultaneous display of all gases

Buzzer holes
Loud and clear sound (95dB in 30cm distance)

4 button operation
Glove friendly, glow-in-the-dark

Waist strap attachment
Optional

IR communication
Data logging standard

Shoulder strap
Optional attachment

Gas IN

Gas OUT

AC connector

Battery cover
Rechargeable Lithium-Ion accu standard, AA Alkaline option

IrDA Communication

The built-in data logger allows you to record up to 40 hrs of measurement data and save it to the internal memory. The optional data logger software is Windows© XP and Vista compatible for managing instrument fleets. Consequently, you can also transmit the data wirelesses by infrared to a PC to analyze prior hazardous situations.

Password Protection

Because of the GX-8000 security features you are secured from accidental misconfigurations or missed calibrations, which may influence measurement mode in a negative way and endanger the user.
Calibration intervals and reminders are user adjustable and all critical adjustments can be password protected.

TOP Service Program

RKI Analytical Instruments offers follow-up services to give our customers extensive care for a fixed and affordable price so that running costs are manageable. The development and production of high-quality gas measuring technology on one hand and experienced engineering, professional installation and maintenance on the other hand - RKI covers all of them.

Our services:
- Extensive engineering and technical consulting
- Professional mounting and fitting
- Installation and commissioning
- Training for production and service staff
- Service and maintenance

Applications

- Confined space
- Refineries / petrochemical / chemical plants
- Oil tanker / gas carrier / bulk carrier
- Water / wastewater treatment
- Fire services
- Telecommunication services
- Power plant
- Gas plant / gas supplier service
- Utilities
- Coating field
- Fuell cell facilities

Optional Acessories

RKI TOP Service
Extensive
service program

Gas sampling hose
30 m, with plummet or
float type sampling head

Waist Strap

Gas sampling bag
capacity 1L,
for LEL or VOL.%

Test and calibration gas
Calibration set also
available

Dry battery unit

Leather carrying case

RIKEN KEIKI
For a Safer World

Specifications

Model	GX-8000				
Detection gas	HC Combustible gases	HC Combustible gases	O$_2$ Oxygen	H$_2$S Hydrogen sulfide	CO Carbon monoxide
Detection range	0 – 100 % Vol.	0.100 % LEL	0 – 40 % Vol.	0 – 100 ppm	0 – 500 ppm
Resolution	1 % Vol.	1 % LEL	0.1 % Vol.	0.5 ppm	1 ppm
Detection principle	Thermal conductivity	Catalytic combustion	Galvanic cell	Electrochemical cell	
Display	Digital LCD with auto backlight, digital display (7 segments) and digital bargraph (25 segments)				
Alarm indication	LED's flash, buzzer alternating between low and high pitch (95dB at 30cm), indication value flashes, alarm message displays				
Alarm presets (Adjustable)	N/A	1st 10 % LEL 2nd 20 % LEL	1st 19.5 % Vol. 2nd 23.5 % Vol.	1st 10 ppm 2nd 30 ppm TWA 10 ppm STEL 15 ppm	1st 25 ppm 2nd 50 ppm TWA 30 ppm STEL 60 ppm
Types of alarm	Gas alarm: Latching, 2 alarms Failure alarm: Flow failure, sensor failure, battery failure, circuit failure, calibration failure				
Suction flow	Minimum 0.75 ℓ/min				
Datalogger	Datalogger standard. Stores 8 alarm trend events: 3600 data point capacity with a log time range of 10 to 300 hours (based on programmable interval times); and stores up to 100 calibration records.				
Operating temp. & humidity	-20°C to +50°C, 0 to 95 % RH (non-condensing)				
Response time	30 s (T$_{90}$)				
Continuous operation	More than 12 hours after 3 hours for a full charge, more than 6 hours with AA dry battery unit (optional)				
Power source	Lithium-ion battery standard with AC charger, AA alkaline battery pack (3 batteries) optional				
Safety rating	⟨Ex⟩ II 1G Exia II CT4 intrinsically safe Complying to IEC60079-29-1, Ex Zone 0 Exia II CT4 ⊙ MED (Steuerrad) HK, CE				
Ingress proof rating	IP67				
Dimensions and weight	Approx. 154 x 81 x 127 mm, 1.1 kg				
Additional features	Indication to show energizing (pilot indicator and pump driving indicator), pump stop function, bump test function, IrDA communication, STEL, TWA and PEAK, Password protection				
Accessories	Standard: AC charger, gas sampling probe, gas sampling hose (spiral 1m), lithium-ion battery, neck/shoulder strap, instruction manual Optional: Dry battery unit, gas sampling hose 8m with float type sampling head, gas sampling hose 30m with plummet, filter tube, junction tube, diluter adapter (for bulk carrier application), 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 pc-software				

Specification subject to change without notice.

Direct readout combustibles

Standard	LEL	Detection range
iso-Butane i-C$_4$H$_{10}$	1.8% Vol.	0-100% LEL / 0-100% Vol.
Methane CH$_4$	5.0% Vol.	
Hydrogen H$_2$	4.0% Vol.	

Option (factory setting)	LEL	Detection range
Acetylene C$_2$H$_2$	1.5% Vol.	0-100% LEL
Methylalcohol CH$_3$OH	5.5% Vol.	0-100 %LEL
MEK CH$_3$COC$_2$H$_5$	1.8% Vol.	0-100% LEL
n-Hexane CH$_3$(CH$_2$)$_4$CH$_3$	1.2% Vol.	0-100% LEL
Toluene C$_6$H$_5$CH$_3$	1.2% Vol.	0-100% LEL

GX-8000 gas combinations available

		Combustibles 0-100% Vol.	Combustibles 0-100% LEL	O$_2$ 0-40%	H$_2$S 0-100 ppm	CO 0-500 ppm
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		●	●		
Single gas	Type O$_2$			●		
	Type LEL		●			

Please specify gas combinations when ordering.

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