

# RIKEN

## PORTABLE COMBINATION GAS MONITOR

Combustibles/Oxygen simultaneous detection display and toxic gases by multi-layered detector tube

MODEL

# GX-7



### Applications

- Marine Vessels/Tankers
- Telecoms
- Sewage Treatment Plants
- Utility Manholes
- Underground works
- Fire Defense Stations
- Power Stations
- Petrochemical Refineries
- Hazardous Waste Sites
- Chemical plants
- Tunnels/Mines etc.

### Features

- Fully portable and robust design
- Simultaneous readout for combustibles/oxygen on one easy-to-read meter
- Visual and audible alarms showing each different alarm sounds (Strong buzzer sound 85 dB at 1m distance)
- Built-in strong suction pump for long sampling available up to over 100 ft (30 m)
- Back-lit in dark place
- Quick fit calibration for CH<sub>4</sub>/O<sub>2</sub> by canned cal gas (optional)
- Low battery alarm
- Plug-in sensors with long life (2-3 years)
- Proven reliability
- Intrinsically safe (No. 30766) in Japan
- Approved (No. 560) by NK Register of Shipping



RIKEN KEIKI CO.,LTD.

## ■ Outlines

Model GX-7 is a compact battery operated portable combination gas monitor with internal heavy duty pump available to suck sample gas from over 100 feet (30 m) long site by optional sampling hose and designed to measure not only combustible gas gases on catalytic combustion method and oxygen based on galvanic cell method in simultaneous readout on one meter but CO by accessory multi-layered tube (As optional, CO<sub>2</sub> tube and H<sub>2</sub>S tube available), and gives audible/visual alarm at alarm preset points by LED alarm lights and heavy duty buzzer (85 dB at 1 m). The built-in latest electronics enables to assure the most reliable and functional measurement of model GX-7 with long life plug-in combustible and oxygen sensors (2-3 years). The sample gas above water can be measured by this unit with optional floating type gas sampling head. This is approved intrinsically safe for safety operation even in hazardous area (id2G4 equivalent to Ex id IIB T4) and approved in marine by NK Register of Shipping in Japan (a member of IMO).

## ■ Plug-in sensors (HC & O<sub>2</sub>) is easy to plug in/plug out for replacement

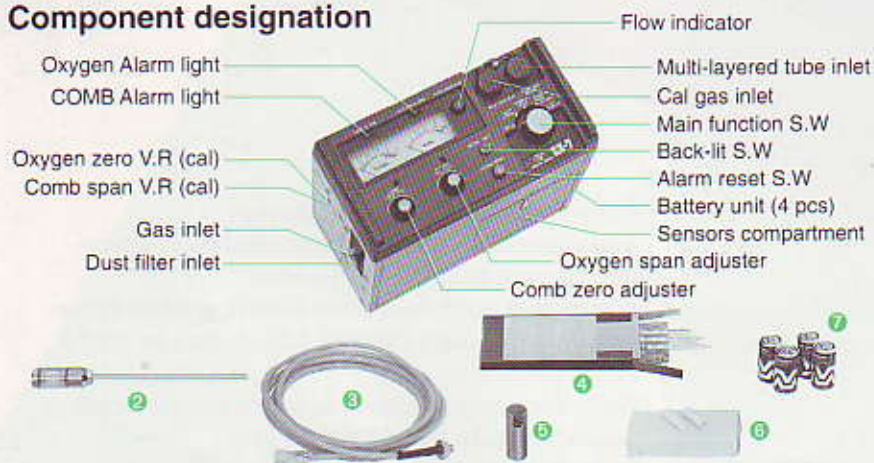


## ■ Specifications

Measurable gas	Oxygen (O <sub>2</sub> )	Combustible or Methane (CH <sub>4</sub> )	Toxic gases
Detection method	Electrochemical cell	Catalytic combustion	Multilayered gas detector tube (Reagent discolor)
Measuring range	0~25%	0~100% LEL	—
Detectable concentrations for toxic gases	—	—	CO : 0, 50, 100, 200ppm (Std) CO <sub>2</sub> : 0, 0.5, 1.0, 2.0% (Optional) H <sub>2</sub> S : 0, 10, 30, 50ppm (Optional)
Accuracy	Better than ±5% of full scale		
Alarm setting	18%	30% LEL	Continuous buzzer sound warns in about 1 minute after putting into tube inlet until finishing measurement.
Alarm timing	Equal short length pulses	Short-long length pulses	
Malfunction/trouble alarm	When the battery capacity is low, the alarm gives continuous sound		
Response time	Less than 20 sec. to 90% indication	Less than 15 sec. to 90% indication	—
Atmospheric pressure	Available from normal to 2 atmospheric pressure (But, necessary to make span adjustment to 21% O <sub>2</sub> )		
Ambient temp	-10°C~+40°C		
Sampling method	Sample-drawing with special built-in diaphragm pump		
Operating hours	4 hours minimum		
Battery	Dry batteries 1.5V, 4 pcs.		
Dimensions & weight	230(W) × 183(H) × 113(D)mm, Approx 3.3kgs.		
Explosion proof	id2G4	Electrical circuit with pump.....Intrinsically safe	Detector head part.....Explosion proof (Flame proof)

Specifications subject to change without notice.

## Component designation



## ● Standard Accessories

- ① Carrying case with shoulder strap.....1 pce
- ② Sampling probe.....1 pce
- ③ Sampling hose (3 m).....1 pce
- ④ CO multi-layered detector tube (10 pcs/pk)....1 pk.
- ⑤ Cutter for above tube.....1 pce
- ⑥ Dust (tabacco) filter (10 pcs/pk).....1 pk.
- ⑦ Dry battery (SUM-2, R14 or C size).....4 pcs
- ⑧ CO detector tube instruction card.....1 copy
- ⑨ Instruction manual.....1 copy
- ⑩ Test certificate.....1 copy

## ● Optional Accessories

- a) Canned calibration gas (CH<sub>4</sub>/O<sub>2</sub>)
- b) CO<sub>2</sub> detector tube (10 pcs/pk)
- c) H<sub>2</sub>S detector tube (10 pcs/pk)
- d) Floating type gas sampling head



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