



RIKEN KEIKI

# PORTABLE MULTI GAS MONITOR FOR OIL TANKER

**Model RX-8700**

 ATEX / IECEx approved (Ex ia IIC T4)  
 MED (Pending)


## ▪ 3 measuring gas available

Many kind of roles with 1 unit in Oil Tanker

- measurement in cargo tank
- measurement in ballast tank
- HC measurement during gas free and tank cleaning

## ▪ One-push switching to change measuring gas

 Measuring mode HC/O<sub>2</sub>/H<sub>2</sub>S<Low> and H<sub>2</sub>S<High> can be switched over by one button.

## ▪ Infrared ray sensor for HC

Dual range detection of HC in %vol and %LEL (Automatically switches ) in inert gas

## ▪ Intrinsically safe (ATEX/IECEx)

Explosion proof class: Exia II CT4

## ▪ Equivalent to ingress proof rating IP67


 H<sub>2</sub>S<High> measurement

↑ One-push switching ↓


 HC/O<sub>2</sub>/H<sub>2</sub>S<High> measurement

## Specifications

Target gas	Combustible gas (HC)	Oxygen (O <sub>2</sub> )	Hydrogen sulfide (H <sub>2</sub> S)	
Detection principle	Non-Dispersive Infrared Ray	Galvanic cell	Electrochemical	
Detection range	0~100.0%LEL/ 2~100.0vol% ※1	0~25.0vol% <25.1~40.0vol%>	【Low】 0~30.0ppm	【High】 0~1000ppm
Increments	0.5%LEL (0~100.0%LEL) 0.5vol% (5~100.0vol%)	0.1vol%	0.5ppm	1ppm
Sampling method	Sample Draw			
Sampling rate	Minimum 0.75L/min			
Display	Digital LCD (7 segment + sign + bar display)			
Power supply	Lithium-ion battery <Standard> Alkaline battery (AA Alkaline battery X 3) <Option>			
Continuous operation	Lithium-ion battery Unit : longer than 15hours (full-charge, no alarm, no light, at 25°C) <Standard> AA Alkaline battery Unit : longer than 8hours (New battery, no alarm, no light, at 25°C) <Option>			
Operating temp & Humidity	-20~+50°C, below 95%RH (Non-condensing)			
Dimensions	Approx. 154(W) x 81(H) x 163(D) mm			
Weight	Approx. 1.3kg (Lithium-ion battery type) <Standard>, Approx. 1.2kg (Alkaline battery type) <Option>			
Ingress proof rating	Equivalent to IP67			
Explosion proof	Intrinsically safety (Ex ia II CT4) <ATEX/IECEX>			
Approvals	ATEX/IECEX, TIIS, MED (Pending)			
Other Functions	LCD back light, Datalogger, Log data, Peak hold, Pump stop function *2			
Transmission method	IrDA for data logger			

\*1 The display automatically switches to the vol% range when the concentration of a measured combustible gas exceeds 100%LEL

\*2 Normally the gas alarm function is set to OFF and unavailable, To use this function, please offer when you are ordering

### Standard accessories



Li-ion battery unit



AC adaptor  
charger (AC100-220V)



Shoulder strap



Sampling probe and Gas  
sampling tube



Filter tube and Junction  
tube



Fixing belt for filter tube

### Optional accessories

- \* Alkaline battery unit
- \* Alkaline batteries (3pcs)
- \* Carrying case (Aluminum)  
(375(W) x 265(H) x 245(D) mm)
- \* Waist strap and fixing tool
- \* Sampling probe holder on the neck/shoulder strap
- \* Gas sampling hose with spindle (10m to 30m)
- \* Gas sampling hose with probe (8m to 30m)
- \* Telescopic sampling probe  
(2-steps 0.72m / 9-steps 3.0m)
- \* Water trap filter
- \* Display protection film
- \* Gas Checker (for H<sub>2</sub>S)
- \* Gas sampling bag
- \* Datalogger software

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