



RIKEN KEIKI

# PORTABLE MULTI GAS MONITOR FOR LNG TANKER

Model **RX-8500**

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



## ▪ 4 measuring gas available

Many kind of roles with 1 unit in LNG carrier,

- CH4/O2 measurement in cargo tank
- O2/CO/CO2 measurement at the outlet of Inert Gas Generator
- O2 measurement in cargo tank

## ▪ Infrared ray sensor for CH4

Dual range detection of CH4 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

## Specifications

Target gas	Methane (CH <sub>4</sub> )	Oxygen (O <sub>2</sub> )	Carbon monoxide (CO)	Carbon Dioxide (CO <sub>2</sub> )
Detection principle	Non-Dispersive Infrared Ray	Galvanic cell	Electro chemical	Non-Dispersive Infrared Ray
Detection range	0~100.0%LEL/ 5~100.0vol% *1	0~40.0vol%	0~1000ppm	0~20.0vol%
Increments	0.5%LEL (0~100.0%LEL) 0.5vol% (5~100.0vol%)	0.1vol%	1ppm	0.01vol% (0~2vol%) 0.05vol% (2~5vol%) 0.1vol% (5~20vol%)
Sampling method	Sample Draw			
Sampling rate	Minimum 0.75L/min			
Display	Digital LCD (7 segment + code + 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. 1.2kg (Lithium-ion battery type) <Standard>, Approx.1.1kg (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 specify when you are ordering

### Standard accessories



Li-ion battery unit



AC adaptor  
charger (AC100-220V)



Sampling probe and gas  
sampling tube



Filter tube and junction  
tube



Shoulder strap



Fixing belt for filter tube



CO<sub>2</sub> removal filter  
for calibration of CO<sub>2</sub>



Fixing belt for CO<sub>2</sub>  
removal filter

### 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 sampling bag
- \* Datalogger software

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