



RIKEN KEIKI

PORTABLE MULTI GAS MONITOR FOR LNG TANKER

Coming Soon!!

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 ₄)	Oxygen (O ₂)	Carbon monoxide (CO)	Carbon Dioxide (CO ₂)
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



CO₂ removal filter
for calibration of CO₂



Fixing belt for CO₂
removal filter

Optional accessories

- * Alkaline battery unit
- * Alkaline batteries (3pcs)
- * Carrying case (Aluminum)
(375(W) x 265(H) x 245(D) mm)
- * Leather carrying case
- * 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

RIKEN KEIKI Co., Ltd.

2-7-6 Azusawa, Itabashi-ku, Tokyo 174-8744, Japan

Phone : +81-3-3966-1113

Telefax : +81-3-3558-9110

E-mail : intdept@rikenkeiki.co.jp

Web site : <http://www.rikenkeiki.co.jp>



RIKEN KEIKI

PORTABLE MULTI GAS MONITOR FOR OIL TANKER

Coming Soon!!

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/O₂/H₂S<Low> and H₂S<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



H₂S<High> measurement

One-push
switching

HC/O₂/H₂S<High>measurement

Specifications

Target gas	Combustible gas (HC)	Oxygen (O ₂)	Hydrogen sulfide (H ₂ 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)
- * Leather carrying case
- * 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 H₂S)
- * Gas sampling bag
- * Datalogger software

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