



4 GAS: LEL, %VOL, CH4 IR / O2 / CO / CO2

Gas Detection For Life

MODEL RX-8500



Features

- 4 Measuring gas available
 - CH4/O2 measurement for cargo tanks
 - O2/CO/CO2 measurement for inert
 - Inert monitoring measurement in cargo tank
- Infrared sensor for CH4
 - Autoranging CH4 from %LEL to %Vol
- Intrinsically safe ATEX / IECEx / MED
- IP-67

Applications

- Crude Oil Carriers
- Bulk Carriers
- Chemical Tankers

The RX-8500 series portable gas monitors are designed to meet the requirements of the marine market for testing of cargoes and confined spaces for hydrocarbon and oxygen content. These models provide real time detection of hydrocarbons and methane up to 100 % volume, with the gas reading automatically ranging up and down from % LEL to % volume as the concentration changes. A long life electrochemical type oxygen sensor is also available with range of 0-25 % volume. Hydrocarbons and methane are detected using NDIR (non-dispersive infrared) sensors that can detect in inerted and ambient environments.

The RX series instruments are intrinsically safe (ATEX/IECEx Exia IIC T4) and MED certified, IP-67 compliant for water and dust resistance, and utilize a strong internal sample pump, with sample lines available in lengths up to 30m. Battery power is provided by either alkaline (3 AA) battery pack (10 hour operating time) or a rechargeable lithium ion battery pack (15 hour operation). A loud (95dB) alarm buzzer and ultra bright LED lights provide warning of hazardous conditions.

Target Gas	CH4	O2	CO	CO2
Detection Principle	Non-Dispersive Infrared Ray	Galvanic cell	Electro chemical	Non-Dispersive Infrared Ray
Detection Range	0~100.0 %LEL 5~100.0 vol% *1	0~40.0 vol%	0~1000 ppm	0~20.0 vol%
Increments	0.5% LEL (0~100.0 %LEL) 0.5% vol% (5~100.0 vol%)	0.1 vol%	1 ppm	0.5% LEL (0~100.0 %LEL) 0.5% vol% (5~100.0 vol%) 0.1 vol% (5~20 vol%)
Sampling Method	Sample Draw			
Sampling Rate	Minimum 0.75 liters per minute			
Display	Digital LCD (7 segment + code + bar display)			
Power Supply	Lithium-ion battery (standard) Optional Alkaline battery (AA Alkaline battery x 3)			
Continuous Operation	Standard Lithium-ion battery Unit: Longer than 15 hours (full charge, no alarm, no light, at 25°C) Optional AA Alkaline battery Unit: Longer than 8 hours (New battery, no alarm, no light, at 25°C)			
Operating temp & Humidity	-20~+50°C, below 95%RH (Non-condensing)			
Dimensions	Approx. 154(W) x 81(H) x163(D) mm			
Weight	Approx. 1.2kg (Lithium-ion battery type) Approx. 1.1kg (Alkaline battery type)			
Ingress proof rating	IP-67			
Explosion Proof	Intrinsically Safe: Ex ia II CT4 , ATEX/IECEX			
Approvals	MED			
Other Functions	LCD back light, Datalogger, Log data, Peak hold, Pump stop function *2			
Transmission Method	IrDa for data logger			
Standard Accessories	Li-on battery unit, AC adaptor, Sampling probe and gas sampling tube, Filter tube and junction tube, Shoulder strap, Fixing belt for filter tube, CO2 removal filter for calibration, Fixing belt for CO2 removal filter			

*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



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