



3 GAS: LEL, %VOL HC IR / O₂ / H₂S LOW & HIGH

Gas Detection For Life

MODEL RX-8700



Features

- Dual range H₂S, with 0 - 1,000 ppm high range
- Auto-ranging IR HC sensor from % LEL to % Vol.
- Inert monitoring
- Internal sample drawing pump with 30 meter range
- Intrinsically safe ATEX / IECEx / MED
- IP-67

Applications

- Crude Oil Carriers
- Bulk Carriers
- Chemical Tankers
- Cargo and Ballast tanks
- HC measurement during gas free and tank cleaning

The RX-8700 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 galvanic type oxygen sensor is also available with a range of 0-25 % volume. Hydrocarbons and methane are detected using an NDIR (non-dispersive infrared) sensor 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 an alkaline (3 AA) battery pack (8 hour operating time) or a rechargeable lithium ion battery pack (15 hour operation). A loud (95dB) alarm buzzer and ultra bright LED lights warn of hazardous conditions.





MODEL RX-8700

Target Gas	HC	O2	H2S	
Detection Principle	Non-Dispersive Infrared Ray	Galvanic cell	Electrochemical	
Detection Range	0~100.0 %LEL 5~100.0 vol% *1	0~25.0 vol% <25.1~40.0 vol%>	[Low] 0~30.0 ppm	[High] 0~1000 ppm
Increments	0.5% LEL (0~100.0 %LEL) 0.5% vol% (5~100.0 vol%)	0.1 vol%	0.5 ppm	1 ppm
Sampling Method	Sample Draw			
Sampling Rate	Minimum 0.75L/min			
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. 1.3kg (Lithium-ion battery type) Approx. 1.2kg (Alkaline battery type)			
Ingress proof rating	IP-67			
Approvals	Intrinsically Safe: Ex ia II CT4 , ATEX / IECEx / MED			
Other Functions	LCD back light, Datalogger, Peak hold, Pump stop function *2			
Transmission Method	IrDA for data logger			
Standard Accessories	Li-on battery unit, AC adapter, Sampling probe and gas sampling tube, Filter tube and junction tube, Shoulder strap, Fixing belt for filter tube			

*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