Marine

Gas Detection Solutions







Crude Oil Carriers
LNG / LPG / CNG

Bulk Carriers

Chemical Tankers

Cruise Ships

Iron Ore / DRI

Coal Carriers

Barges

Container Ships

WORLDWIDE SERVICE

- Personal and portable gas monitors designed for marine use
- Drop ship worldwide
- Same day shipments
- Calibration gas same day shipment

SOLAS XI-1/7 compliant products Certified instruments:

- ATEX, MED, CSA, ABS, IECEx, UL



Gas Monitoring Solutions for Marine Applications



		Car	go Tes	sting		Confined Space Monitoring						
lapow Features	Inert Monitoring	High Range H2S	100% Volume HC	40m Sample Range	30m Sample Range	4 Gas LEL/ O2/CO/H2S	PID Capability	PPM Hydrocarbon	40m Sample Range	30m Sample Range	Wearable	Calibration Station
GX-2009						•					•	•
GX-2012						•				•	•	•
GX-6000						•	•	•		•	•	•
EAGLE 2	•	•		•	•	•	•	•	•	•		•
GX-8000					•	•				•		
RX-8000	•		•		•							
RX-515/517	•	•	•		•							



	C	Confined Space Monitoring								
leppow Features	4 Gas LEL/ 02/CO/H2S	PID Capability	PPM Hydrocarbon	40m Sample Range	30m Sample Range	Wearable	Calibration Station			
GX-2009	•					•	•			
GX-2012	•				•	•	•			
GX-6000	•	•	•		•	•	•			
EAGLE 2	•	•	•	•	•		•			
GX-8000	•				•					
RX-8000										
RX-515/517										



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EAGLE 2	•	•		•	•	•	•	•	•	•		•
GX-8000						•				•		
RX-8000	•		•		•					•		
RX-515/517	•	•	•		•							

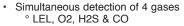


	C	Cargo	Testin	9	C	ion					
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GX-2012					•				•	•	•
GX-6000					•	•	•		•	•	•
EAGLE 2	•		•	•	•	•	•	•	•		•
GX-8000	•	•		•	•				•		
RX-8000	•	•		•							
RX-515/517	•	•		•							

Personal & Portable Gas Monitors

GX-2009

Smallest 4 gas personal monitor



- Dual audible alarm ports (95 db @ 30 cm)
- 3 visual alarm LED's
- Vibration alarm
- Optional motorized or hand pump

Certifications

IECEx | ATEX | MED | c CSA us | IP-67

GX-2012

Personal

4 gas personal monitor with 30m sample range

- 3 Operating modes: Normal, leak check, & bar hole
- Monitor ppm % LEL, and % volume methane, O2. CO and H2S
- 0 to 100% volume methane option
- Auto-ranging display of % LEL and % volume
- Alkaline or Li-Ion battery packs

IECEx | ATEX | CSA | CE | IP-67

GX-6000

6 Gas portable with PID, IR & super toxics

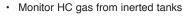
- 5 Operating modes
- 2 Interchangeable smart sensor slots
- Library of over 600 VOCs
- · PID library of over 600 VOC's
- Alkaline or Li-Ion battery packs
- · 30m sample range without PID

Certifications

IECEx | ATEX | (CSA) pending | CE | IP-67

Eagle 2

6 Gas portable monitor with 40m sample range



- HC ranges include 100% LEL and 30% volume
- Auto-ranging display between % volume and % LEL HC or CH4
- PID sensor for VOC testing
- Alkaline or NiMH batteries

Certifications

Calibration Station

SDM-2009

- Simultaneously bump / calibrate, charge, and collect data up to 10 instruments
- Stand-alone station (no PC Required)
- On board calibration certificates
- Multiple modules connected to a PC (10 max)
- 2 Gas inlets

Calibration Station

SDM-2012

- Simultaneously bump / calibrate, charge, and collect data up to 10 instruments
- Stand-alone station or PC connect
- Charging (Li-Ion Battery Pack)
- On board calibration certificates
- Multiple modules connected to a PC (10 max)
- · 2 Gas inlets

Calibration Station

SDM-6000

- Simultaneously bump / calibrate, charge, and collect data up to 10 instruments
- Touch screen control display
- On board calibration certificates
- One power source for multiple units
- · 3 Gas inlets with 6 gas option

Calibration Station

SDM-E2

- Simultaneously bump / calibrate, charge, and collect data up to 10 instruments
- Stand-alone station or PC connect
- Charging (NiMH batteries)
- 2 Calibration gas ports



GX-8000/RX-8000

- LEL/100% Vol, O2 (RX-8000)
 - Large simultaneous display with auto backlighting
 - 3 bright LED alarm windows
 - · Lithium ion rechargeable battery pack
- Real-time detection for combustibles 100% · Compact and light weight
 - hands free operation
 - Datalogging standard
 - · GX-8000: Dual combustible sensor /O2/CO/H2S
 - · GX-8000: CH4 or HC/O2 (inert monitoring)

Ergonomic design with waist strap for



Certifications ATEX | MED

ATEX | IECEx | MED | IP-67

RX-515/RX-517

3 & 4 Gas IR portable HC / O2 with 30m sample range

Dual range detection of % Vol. and % LEL for CH4 or HC

- Accurately monitor inert locations for CH4 / HC
- Dual Range H2S 0-100 & 0-1000 ppm
- High range H2S 0-1,000 ppm available (RX-517)
- LNG Carriers
- ° RX-515: CH4 / 02 (25% Vol.) / CO (1,000 ppm) / CO2 (20% Vol.)
- · Oil Tankers
 - ° RX-516: HC / O2 / H2S (100 ppm)
 - ° RX-517: HC / O2 / H2S (1,000 ppm) & (100ppm)













Global Partners in Marine Monitors





USA

510-441-5656 www.rkiinstruments.com



Japan

81-3-3966-1113 www.rikenkeiki.co.jp









Datrex Miami 3525 NW 33rd Street Miami, FL 33142 305-638-8220 datrexmia@datrex.com Datrex Jacksonville 618 Talleyrand Ave. Jacksonville, FL 32202 904-355-1401 datrexjax@datrex.com







SOLAS XI-1/7 COMPLIANT GAS MONITORS

New SOLAS XI-1/7 Regulation Defines Atmospheric Test Instruments for Confined Spaces Pre-entry Measurement

Many vessels are constructed with enclosed spaces (also known as confined spaces) which can pose hazards to personnel required to enter these spaces to perform work: Toxic gases, lack of oxygen and risk of explosion from flammable or combustible gases and vapors. Some examples of this type of space include, but are not limited to, cargo and ballast tanks, hulls, and holds. These risks can be mitigated by conducting pre-entry tests with appropriate multi-gas detector.

Pre-entry measurement: Requirements for a portable multi-gas detector

 Explosion protection: The device must meet be certified to relevant explosion protection standards. There are several standards that exist around the world, including ATEX, IECeX, CSA, UL, etc.

- Durability: A robust housing protects against impact, and intrusion of particulates or water (IP rating).
- Pre-entry sampling: the gas detector must have a means of sampling from the confined space prior to entry, by inserting a hose or probe and observing test results in a safe area before entering.
- Calibration and testing: All gas detectors require periodic testing to ensure reliability. Proper calibration equipment must be provided, and records of testing maintained on board the vessel.
- Electromagnetic compatibility: The gas detector must not be adversely affected by other electronic devices or equipment in the area, nor can they cause interference with said equipment.