

# GMI



# SHIPSURVEYOR

LEL

VOL  
GAS

O<sub>2</sub>

H<sub>2</sub>S

CO<sub>2</sub>

CO



The new GMI - SHIPSURVEYOR instrument is designed to provide a solution for all your safety monitoring and inerting marine application requirements.

With 7 models to choose from, this extremely versatile instrument complies with international marine regulations for Confined Space Monitoring, Inerting, Pre-entry Testing, Tank Cleaning and many other marine applications in vessels such as LNG / LPG Tankers, Oil Tankers, Fruit Carriers and Refrigerated Cargoes.

## FEATURES

- ◆ Easy to use / Low Maintenance instrument, fully certified to MED.
- ◆ Infrared (IR) technology for inerting / purging operations.
- ◆ Ability to enter up to 300 unique user identified location areas on a vessel and record gas values detected in each area.
- ◆ Integral pump capable of drawing a sample from 30 metres.
- ◆ Selectable dual mode operation: Confined Space Monitor (CSM) or Combustible Gas Indicator (CGI).
- ◆ Rugged impact resistant carbon impregnated polypropylene casing, sealed to IP54 rating and suitable for rigorous marine applications.
- ◆ LCD with automatic backlighting in poor ambient lighting conditions. All gas readings displayed together with operational and status information.
- ◆ Innovative range of accessories specifically designed to support this specialised marine instrument.





Distributor

## SPECIFICATION

### Measuring Ranges

- 0 to 100% LEL (Infrared)
- 0 to 100% Volume Gas (Infrared)
- 0 to 25% Oxygen (O<sub>2</sub>)
- 0 to 100ppm Hydrogen Sulphide (H<sub>2</sub>S)
- 0 to 20% Carbon Dioxide (CO<sub>2</sub>) Infrared
- 0 to 1000 ppm Carbon Monoxide (CO)

### Display

LCD with backlighting

### Resolution

LEL	0 to 100%	1%
Vol Gas	0 to 100%	1%
Oxygen	0 to 21%	0.1%
	21 to 25%	1%
Hydrogen	0 to 100 ppm	1 ppm
Carbon	0 to 5%	0.1%
Dioxide	5 to 20%	0.5%
Carbon	0 to 1000 ppm	1 ppm
Monoxide		

### Alarms

Highly visible flashing LED's on display panel.  
Sounder in excess of 80dB(A), typically 85dB(A) @12in.

### Sampling System

Integral pump with flow fail sensor. Sample path is protected by a hydrophobic filter and automatic pump switch-off.

### Physical Properties

Weight: 1.35 kg (3.0 lbs)  
Dimensions: 180mm (7.1in) x 95mm (3.7in) x 100mm (3.9in)

### Construction / Protection Rating

Moulded polypropylene case protected to IP54

### Power Supply

2 Alkaline Cells, or  
2 Rechargeable Cells

### Battery Life

2 x Alkaline 20 Hrs.  
2 x Rechargeable 8 Hrs.

### Environment

Temperature Limits -20°C to +50°C (-4°F to +122°F)  
Humidity: 0 to 100% R.H. non-condensing

### Certification

ATEX II 2 G Exd Ia IIB T3 Gb (-20°C ≤ Tamb ≤ 50°C)



As an ISO 9001 approved company, GMI Ltd's quality assurance programmes demand the continuous assessment and improvement of all GMI products. Information in this leaflet could thus change without notification and does not constitute a product specification. Please contact GMI or their representative if you require more details.

## Ordering Information

### Instrument c/w (Hard) Case & Accessories

S-1 (LEL / VOL)	48021	<input type="checkbox"/>
S-2 (LEL / VOL / O <sub>2</sub> )	48022	<input type="checkbox"/>
S-3 (LEL / VOL / O <sub>2</sub> / H <sub>2</sub> S)	48023	<input type="checkbox"/>
S-4 (LEL / VOL / O <sub>2</sub> / CO <sub>2</sub> )	48024	<input type="checkbox"/>
S-5 (LEL / VOL / O <sub>2</sub> / CO <sub>2</sub> / CO)	48025	<input type="checkbox"/>
S-6 (LEL / VOL / O <sub>2</sub> / H <sub>2</sub> S / CO)	48026	<input type="checkbox"/>
S-7 (O <sub>2</sub> / CO <sub>2</sub> )	48027	<input type="checkbox"/>

Note: All Shipsurveyor instruments are supplied in a (hard) Carry Case c/w: Neck / Shoulder Harness ; 4mm. Hex Driver ; Probe Handle c/w Quick Connect & 1m. (39ins.) Conductive Tubing ; 15cm. (6ins.) Open End Probe ; Box (10) Cotton Filters x 2 ; User Handbook ; Quick Operating Instructions ; Calibration Certificate ; Configuration Report.

### Accessories

(Hard) Carry Case	48100	<input type="checkbox"/>
Leather Field Case	48101	<input type="checkbox"/>
Neck / Shoulder Harness	12370	<input type="checkbox"/>
Waist Harness	12371	<input type="checkbox"/>
Probe Handle c/w 1m. (39ins.) Sample Line & Quick Connect	48120	<input type="checkbox"/>
Hydrophobic Filter	12358	<input type="checkbox"/>
Cotton Filter - Box of 10	10077	<input type="checkbox"/>
Sample Line Adaptor	12688	<input type="checkbox"/>
Clear Sample Line - per metre (39ins.)	12712	<input type="checkbox"/>
Ball Float	48102	<input type="checkbox"/>
Sample Line Adaptor c/w Waist Harness, Quick Connect Anchor Assy., & Conductive Tubing x 10m. (32ft.)	48142	<input type="checkbox"/>
x 25m. (80ft.)	48145	<input type="checkbox"/>
x 35m. (114ft.)	48147	<input type="checkbox"/>
35cm. (14in.) Open End Probe	13427	<input type="checkbox"/>
35cm. (14in.) S/Steel Open End Probe	13413	<input type="checkbox"/>
50cm. (20in.) S/Steel Open End Probe	12287	<input type="checkbox"/>
Rechargeable Option Kit (including Charger, Universal Power Supply, 2 Rechargeable Batteries)	48110	<input type="checkbox"/>
Rechargeable Batteries x 2	47280	<input type="checkbox"/>
Data Downloading Package c/w Comms.	48150	<input type="checkbox"/>
Gas Delivery Unit c/w (6mm.) Fittings	14605	<input type="checkbox"/>
Gas Delivery Unit c/w (1/4 in.) Fittings	14606	<input type="checkbox"/>



For a comprehensive list of probes, accessories and calibration gases, contact your local Distributor, or alternatively, GMI Ltd.

Copyright © Gas Measurement Instruments Ltd. 2008.  
All rights reserved.

Part Number 99308 Issue 2 19th February 2009

GMI Ltd - Inchinnan Business Park,  
Renfrew, PA4 9RG,  
Scotland U.K.  
Tel: +44 (0) 141-812 3211  
Fax: +44 (0) 141-812 7820

[www.gmiuk.com](http://www.gmiuk.com)  
e-mail: [sales@gmiuk.com](mailto:sales@gmiuk.com)

GMI Service / Repair Centre:  
25 Cochran Close, Crownhill,  
Milton Keynes, MK8 0AJ  
England U.K.  
Tel: +44 (0) 1908 568867  
Fax: +44 (0) 1908 261056

GMI -  
PROTECTING ENVIRONMENTS ...  
WORLDWIDE