

# GMI



# SHIPSURVEYOR

LEL

VOL  
GAS

O<sub>2</sub>

H<sub>2</sub>S

CO<sub>2</sub>

CO



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

With 8 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 suitable for rigorous marine applications.
- ◆ LCD with automatic backlighting in poor ambient lighting conditions. All gas readings displayed together with operational and status information.
- ◆ Complete with Data Downloading and flexiCal Plus (Calibration) software.
- ◆ Innovative range of accessories specifically designed to support this specialised marine instrument.







## 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% 21 to 25%	0.1% 1%
Hydrogen Sulphide	0 to 100 ppm	1 ppm
Carbon Dioxide	0 to 5% 5 to 20%	0.1% 0.5%
Carbon Monoxide	0 to 1000 ppm	1 ppm

### 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

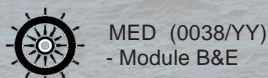
2 x Alkaline 20 Hrs.  
2 x Rechargeable 8 Hrs.

### 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)  
IEC Ex d ia IIB T3 (-20°C < Ta < +50°C)



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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"/>
S-8 (LEL / VOL / O <sub>2</sub> / H <sub>2</sub> S / CO <sub>2</sub> )	48028	<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 ; Datalogging & FlexiCal Plus software & IrDA adaptor.

### 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.)		<input type="checkbox"/>
Conductive Tubing & 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,		<input type="checkbox"/>
Quick Connect Anchor Assy.,		<input type="checkbox"/>
& 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	48110	<input type="checkbox"/>
(including Charger, Universal Power Supply,		<input type="checkbox"/>
2 Rechargeable Batteries)		<input type="checkbox"/>
Rechargeable Batteries x 2	47280	<input type="checkbox"/>
Data Downloading Package (s/w & IrDA)	48150	<input type="checkbox"/>
Manual Calibration Package (s/w & IrDA)	48151	<input type="checkbox"/>
Auto Calibration Package	48152	<input type="checkbox"/>
c/w GDU-2, s/w & (6mm.) fittings		<input type="checkbox"/>
Auto Calibration Package	48152Q	<input type="checkbox"/>
c/w GDU-2, s/w & (1/4 in.) fittings		<input type="checkbox"/>



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

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