



**Smart ODME Computer Module**



**Smart ODME Pump - Measuring Cell**

The Oil Discharge Monitoring Equipment (Smart ODME) has been designed to provide means of monitoring, recording and controlling the ballast discharge in accordance with the requirements of MEPC 108(49).

Discharge limits are set at 30 Litres per nautical mile and a total discharge expressed as a proportion of the previous cargo for dirty ballast.

The requirements of the MARPOL Convention are that all oil tankers with a gross tonnage of 150 GRT and above must have an oil discharge monitoring and control system

installed, incorporating an approved oil content meter, with a starting interlock and an automatic overboard valve control system. The Smart ODME includes all components required to meet MEPC 108(49) and is designed for ease of installation and maintenance.

The requirements in IMO Resolution MEPC 108(49) apply to tankers with a date of keel laying or equivalent stage of construction of 1st of January 2005 or later.

For more detailed technical specification, please see over:



## SPECIFICATION

<b>Measurement</b>	
Oil types:	As Per MEPC 108(49) Requirements
Clean water calibration:	Automatic
Oil measurement range:	0 - 1000 ppm all types
Resolution:	1 ppm
Accuracy oil + solids :	As Per MEPC 108(49) Requirements
<b>User Interface</b>	
Display:	4 line x 20 alphanumeric back lit LCD display
Control + Setup:	3 button keypad incorporating real time system display
<b>Input / Output</b>	
Output:	USB and RS232
Log Input:	200 Contact Closures per nautical mile
GPS:	NMEA 0183
<b>Data Storage and Retrieval</b>	
Calibration data:	Stored onboard microcontroller
Storage data:	Stored onboard mounted memory media
Data retrieval:	via LCD display or download to PC with Hyperterminal
<b>Environmental &amp; Sample</b>	
Ambient temperature:	-10 to +50°C
Sample / clean water flow rate:	0.5 - 4.0 litres / min
Sample / Inlet pressure:	1 bar
<b>System and Supply</b>	
Supply voltage:	
Zenner Barrier/Computer Module:	115 / 230V ac, 50 - 60Hz (Switchable)
Motor:	380-440V ac, 50-60Hz, 3 phase
Supply voltage Consumption:	< 50 VA including solenoid valve
Approvals:	IMO MEPC 108 (49) and GL + USCG
Mounting options:	3U 19" Rack or Cabinet (Computer Module)

