

# SMART ODME TO MEPC 108(49)



## APPLICATIONS

- Dirty Ballast Water Discharge
- Clean Ballast Water Discharge
- Bio Fuel Approved
- Easy Installation

Smart ODME Pump - Measuring Cell



Smart ODME Zener Barrier Module Assembly



The Oil Discharge Monitoring Equipment (Smart ODME) has been designed to provide means of monitoring, recording and controlling the ballast discharge for crude oil, product and chemical tankers including ICE class vessels. This system is modular in construction and does not require the usual pump/motor bulkhead penetration as used on older systems. The Smart ODME includes all components required to meet MEPC 108(49) and the latest MEPC 240(65) for Bio Fuels, effective 1 January 2016.

The Smart ODME incorporates a 'simulation mode' to aid system demonstration to PSC surveyors, is designed for ease of retrofitting, operation, installation and maintenance.

Discharge limits are set at 30 litres of Oil per nautical mile or 1 / 30,000 of the previous cargo for dirty ballast.

## SPECIFICATION

| <b>MEASUREMENT</b>                |  |
|-----------------------------------|--|
| Oil types:                        | As Per MEPC 108(49) + MEPC 240(65) 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>DATA STORAGE AND RETRIEVAL</b> |  |
| Data retrieval:                   | via LCD display or download to PC using Hyperterminal  |
| <b>SYSTEM AND SUPPLY</b>          |  |
| Supply voltage:                   | 115 / 230V ac, 50 - 60Hz (Switchable)  |
| Zener Barrier/Computer Module:    | 115 / 230V ac, 50 - 60Hz (Switchable)  |
| Motor:                            | 380-440V ac, 50-60Hz, 3 phase, 250W  |
| Supply voltage Consumption:       | < 50 VA Single Phase   |
| Approvals:                        | MEPC 108 (49) - DNV GL, GL + USCG, ABS, CCS, NKK, BV,<br>and Russian Register<br>MEPC 240(65) - DNV GL |

Specifications and system descriptions accurate at time of printing. These are subject to change.

