

# RIVERTRACE

## SMART ODME



### APPLICATIONS

- Slop Water Discharge
- Tank Wash Water Discharge
- Clean Ballast Water Discharge

### KEY FEATURES

- Biofuel Approved
- Easy Installation
- Calibration Check Kits available for functional testing

### FLEXIBLE SOLUTIONS

- Modular design allows for custom designs for any shipyard
- Pneumatic or electric sample pump options

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 slop and wash water discharges.

Smart ODME Pump - Measuring Cell



Smart ODME Zener Barrier Module Assembly



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## SMART ODME

### 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 or Rivertrace IMO Log downloader programme
<b>ENVIRONMENTAL &amp; SAMPLE</b>	
Sample Pressure Range	0.1bar to 5bar
Sample Flow Rate	4Lpm to 5Lpm
Sample Temperature	1°C to 40°C
Ambient Temp Range	-20°C to 50°C
Hazardous Area	VPC is Group II Zone 1G IIB T4
<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, USCG, CCS and NKK.
	MEPC 240(65) – DNV GL, CCS and NKK

\*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE