

# Seres



## ODME - S 663 MK III

IMO RES A 586 (XIV) - MEPC 51 (32)

### Oil Discharge Monitoring Equipment



# IMO RES. A 586 (XIV) - MEPC 51 (32) ODME S 663 MKIII

## THE NEW IMPROVEMENT

- Approved ballast monitor
- Microprocessor technology
- Multi cell system
- Trouble-shooting pages
- Self back-flushing system
- Intrinsically safe
- The easiest installation

### Features

- Can be used as dirty and clean ballast, 15 ppm alarm, oil like substances and chemical annex II procedure monitor control system.
- Intrinsically safe, 4 optical fibres.
- Near and far infra-red detector.
- Self compensation device.
- Very short response time
- Automatic back-flushing sequence of the complete hydraulic circuit. Automatic zeroing and calibration
- Self-cleaning measuring cell
- Extra 20 l/m output alarm
- All information displayed in clear language
- Microprocessor technology with battery - maintained memories
- One single cable between operators console and oil content meter.
- Sturdy design
- Insensitive to ships motion and vibration.
- Patents - Approvals
- Accuracy better than IMO A 586 (XIV) requirements
- Very easy installation requiring little work
- Flowmeter working by differential pressure (or other), for control unit.
- Log input by electrical or dry contact impulses (100 to 900 per nautical mile)
- Automatic monitoring of up to 6 channels.

### Measurement principle

The oil content meter includes the near and far infrared oil detector, the automatic self-cleaning system and the automatic self-calibration units. The principle of operation is to transmit a near and far infra-red beam, automatically self-compensated to avoid transmission losses due to the oil and solids concentration. The compensation is carried out by a compensation cell in front of the source.

- A multi cell detection system with computerized discrimination device detects the true value of oil content.
- The hydrocarbons (with minimal influence of solids contaminants) are measured by near infra-red scattered beam with automatic compensation.
- The solids (with minimal influence of hydrocarbons) are measured by far infra-red refracted beam with partial compensation
- Near and far infra-red measured values are computed to determine the true value of oil content.

The system is fully intrinsically safe using optical fibres. A pneumatic piston with strong wiping seal automatically cleans the measuring vessel. All wetted areas of the sensor are in glass, viton and brass, corrosion proof for long-life in harsh environments. The self-calibration system eliminates most maintenance and gives automatic verification of the oil content monitor.



### IMO RES. A 586 (XIV)

- Guidelines and specifications for oil discharge monitoring and control systems for tankers.
- Category A : Tankers ≥ 4,000 DWT
- Category B : 150 Gross Tons < Tankers ≤ 4,000 DWT

FEATURE	CATEGORY	
	A	B
<b>INPUT INFORMATION</b>		
PPM	A	A
FLOW RATE	A	M
SPEED	A	M
DATE & TIME	A	A
<b>STARTING INTERLOCK</b>	A	M
<b>DISCHARGE VALVE CONTROL</b>	A	M
<b>OUTPUT INFORMATION</b>		
L/MILE	A	A
TOT. QUANTITY	A	A
DATE & TIME	A	A
PPM	A	A
<b>SYSTEM FORMAT</b>	Control unit	Computing unit

A : Automatic Function  
M : Manually inserted data from installed source.  
■ : Information presented or permanent record.

