

RIVERTRACE

SMART 40M



The SMART 40M has been developed as a versatile low-cost solution for simple oil in water monitoring applications. Originally designed for use onboard vessels under MARPOL regulation the monitor has been re developed for industrial use with user adjustable alarm points to suit the environmental requirement.

The monitor is designed with 2 key components, the control module and the calibrated measuring cell, allowing for easy recalibration and service of the device while retaining the data storage for historical data integrity.

The measuring cell comes as standard with a manual cleaning device for simple routine maintenance to ensure the optical cell is not fouling and maintains accuracy. Alternatively, this can be upgraded to a pneumatic autoclean which will ensure the cell is cleaned at regular intervals without need for manual cleaning.

The SMART 40M can also be offered as a Exd system for applications that require the monitor to operate in hazardous areas.

APPLICATIONS

- Oily Water Separator Discharge
- Slop Tank Discharge
- Washwater Discharge
- Groundwater Discharge
- Industrial Wastewater

KEY FEATURES & OPTIONS

- Digital Calibration Certification and Automated Reminders
- Integrated Data Log with download function
- Pneumatic Autoclean for automatic optical cell cleaning
- Flow switch option to ensure sample flow is optimal for measurement and ensures no bypassing of the monitor.
- Tailor made Exd system for Hazardous Area (Zone 1 & 2)

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SPECIFICATION

MEASUREMENT	
Oil types:	HFO, Diesel and Mixture C
Clean water calibration:	+/- 2ppm of factory set values
Oil range:	0 – 40 ppm
Accuracy oil + solids:	+/- 5ppm up to 30 ppm
Solids discrimination:	100ppm Iron Oxide in 10 ppm Diesel
Response time:	< 5 sec (oil reading)
ALARMS	
Oil alarm 1 setpoint:	user adjustable
Oil alarm 2 setpoint:	user adjustable
Oil alarm 1 delay:	0 – 5 seconds user adjustable
Oil alarm 2 delay:	0 – 600 seconds user adjustable
INPUT / OUTPUT	
Analogue output:	Active 4-20mA / 0 – 20mA
Switch inputs:	2 x switch inputs for start/stop or on/off
DATA STORAGE AND RETRIEVAL	
Data Log:	Stored in Control Module enclosure
Data Retrieval:	Via LCD display, RS 232 comms link or USB
ENVIRONMENTAL & SAMPLE	
Ambient Temperature	0°C to 60°C
Sample Temperature	1°C to 60°C
Sample Flow Rate	0.5Lpm to 4Lpm
Sample Pressure	0.1Bar to 10Bar
SYSTEM AND SUPPLY	
Supply voltage:	115 or 230V AC, 50 – 60Hz (24V AC & 12V DC available)
Supply voltage Consumption:	< 50 VA incl. solenoid valve
Supply voltage tolerance:	+/- 15%
Projected life:	> 50,000 hrs
Protection class:	IP 65
Weight:	3.2 Kg / 7.05lb

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