

RIVERTRACE

SMART 50M OIL IN WATER MONITOR



APPLICATIONS

- Hydrocarbon Leak Detection
- Lube Oil Cooler Monitoring
- Boiler Feed Protection
- Heat Exchanger Leak Detection
- Produced Water Reuse - RO Feed Water, Steam Generator Feed Water
- Industrial Wastewater/Groundwater discharge

A versatile and sophisticated monitor to suit multiple applications in marine and industrial environments. The Smart 50M uses a nephelometry based detection technique and uses sophisticated algorithms to detect Oil and suspended solids in the sample.

The design of the measuring cell allows the monitoring of high temperature and high pressure samples across multiple ranges of Oil Concentration. Auto-Clean and Auto-Zeroing functionality ensures the maintenance is minimal and that the measuring cell is kept free from fouling.

The Smart 50M can provide the Oil Concentration value to a DCS or PLC using a 4-20mA output and additional process variables can also be provided using the Modbus digital communications protocol (over RS485).

As standard the following data is available:

- Oil Concentration
- Sample Pressure
- Sample Temperature
- Solids Content
- Fault Status
- Alarm and Run states

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SPECIFICATION

Ranges:	Low range	0 - 10ppm
	Medium range	0 - 200ppm
	High range	0 - 3000ppm
Accuracy:	Low range	+/- 0.15%
	Medium range	+/- 5 ppm
	High range	+/- 200 ppm
Alarm 1 Operating Point:	Low range	1 - 10 ppm
	Medium range	1 - 200 ppm
	High range	1 - 3000 ppm
Alarm 2 Operating Point:	Low range	1 - 10 ppm
	Medium range	1 - 200 ppm
	High range	1 - 3000 ppm
Alarm 1 Operating Delay:	1 - 15 seconds	
Alarm 2 Operating Delay:	1 - 600 seconds	
Alarm contact rating:	8 AMP @230VAC	
Output signal:	4-20 mA, Modus over RS485, 4-20 mA with HART option	
Ambient temperature:	1-60 °C / 34 – 122 F	
Humidity:	Max 98% non condensing	
Sample temperature:	1 - 95 °C / 34-203 F	
Sample Flow:	0.3 - 3 Ltrs per min / 0.079 - 0.79 Gal per min	
Sample Pressure:	1.0 Bar Minimum / 14.50 Psi 3.0 Bar Nominal / 43.50 Psi 10.0 Bar Maximum / 145 Psi	
Clean Water requirements:	0.3 - 3L per min / 0.079 - 0.79 Gal per min for 'zeroing'	
Weight:	15kg / 33.07 lb	
Size:	500 x 360 x 150mm / 19.7" x 14.2" x 5.9"	
Supply voltage:	115 - 230 VAC	
Power consumption:	15 VA	
Degree of Protection:	IP56	
Approvals (pending):	Tested to EN61010 EN61326 (CE), c UL us.	

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