

# RIVERTRACE

## SMART 50M



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 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.

As standard the following data is available:

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

### 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

### KEY FEATURES

- Automatic cleaning of the optical cell
- Auto zeroing
- Solids in the sample are automatically compensated for by sophisticated algorithms
- High-Pressure range

### FLEXIBLE SOLUTIONS

- Hazardous Environments (Zone 1 & 2)
- - The SMART 50M can be offered in an explosion proof cabinet
- Sample Conditioning - the SMART 50M can be packaged as a system with sample conditioning equipment to suit the application

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### SPECIFICATION

<b>Range</b>	Low Range	0 – 10ppm
	Medium Range	0 - 200ppm
<b>Accuracy</b>	Low Range	+/- 0.5ppm
	Medium Range	+/- 5ppm
<b>Alarm 1 Operating Point</b>	Low Range	1 – 10ppm
	Medium Range	1 – 200ppm
<b>Alarm 2 Operating Point</b>	Low Range	1 – 10ppm
	Medium Range	1 – 200ppm
<b>Alarm 1 Operating Delay</b>	1 – 15 seconds	
<b>Alarm 2 Operating Delay</b>	1 – 600 seconds	
<b>Alarm Contact Rating</b>	8 AMP @230VAC	
<b>Output Signal</b>	4-20mA	
<b>Ambient Temperature</b>	1 - 60 °C	
<b>Humidity</b>	Max 98% non condensing	
<b>Sample Temperature</b>	1 – 95 °C	
<b>Sample Flow</b>	0.3 – 3 L per Min	
<b>Sample Pressure</b>	Minimum 1 Bar	
	Nominal 3 Bar	
<b>Clean Water Requirements</b>	0.3 – 3 L per Min for 'zeroing'	
<b>Weight</b>	c. 15kg	
<b>Size</b>	500 x 360 x 150mm	
<b>Supply Voltage</b>	115 – 230 VAC	
<b>Power Consumption</b>	15 VA	
<b>Degree of Protection</b>	IP56	
<b>Approvals</b>	Tested to EN61010 EN61326 (CE), c UL us.	

\*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE