

# RIVERTRACE

## SMART TURBIDITY



### APPLICATIONS

- Sewage Treatment Plant Effluent Monitor
- Brewing Quality Monitor
- Groundwater Effluent

By utilising the "Smart Cell" Detector Array Technology, developed by Rivertrace, the monitor accurately analyses the quality of the sample stream and outputs the turbidity value in nephelometer turbidity units (NTU). Turbidity is the cloudiness or haziness of a fluid caused by large numbers of individual particles.

A manual cell cleaning device is included as standard to easily enable routine maintenance and prevent Optical cell fouling which is recognised as a leading cause of monitor malfunction or incorrect reading. By simple operation of the manual cleaning device, the measuring cell remains in optimum operating condition.

Replacement calibrated measuring cells can be purchased for easy change over and calibration verification kits enable the user to demonstrate the monitor is within factory calibration.

The Smart Turbidity Monitor is also available in for Hazardous area Environments classified as Zone 1 & 2.

**OPTIONS >** All options can be ordered from new or retrofitted to existing Rivertrace Smart Cell monitors.

**AUTOCLEAN >** The autoclean option has been designed to ensure that the measuring cell glass tube is kept free from fouling. Cell fouling is recognised as a leading cause of monitor malfunction. Fitting the Autoclean removes the need for the ship's crew to remember to clean the cell manually.



**CALIBRATION CHECK >** The monitor's calibration can be checked using our calibration check kit. This is an approved method of demonstrating that the unit is still working correctly.



# RIVERTRACE

## SMART TURBIDITY

### SPECIFICATION

<b>MEASUREMENT</b>	
Clean water calibration:	+/- 2 NTU of factory set values
Turbidity range:	0 - 100 NTU
Accuracy:	+/- 1 NTU
Response time:	< 5 sec
<b>ALARMS</b>	
Alarm 1 set point:	1 - 100 NTU user adjustable
Alarm 2 set point:	1 - 100 NTU user adjustable
Alarm 1 delay:	0 - 5 seconds user adjustable
Alarm 2 delay:	0 - 600 seconds user adjustable
<b>INPUT / OUTPUT</b>	
Analogue output:	Active 4-20mA / 0 - 20mA
<b>DATA STORAGE AND RETRIEVAL</b>	
Calibration data storage:	Stored in cell assembly
<b>SYSTEM AND SUPPLY</b>	
Supply voltage:	115 or 230V AC, 50 - 60Hz (24V AC & 12V DC available)
Supply voltage Consumption:	< 50 VA
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.