



TurbiTechw² LR Sensor

Turbidity Sensor

PRODUCT DATASHEET

APPLICATIONS

Raw Water
Final Water Monitoring
Filtered Water
Filter Backwash Control
Clarifier Supernatant
Process Control

MEASUREMENT PRINCIPLE

90° Light Scatter
Wavelength 860nm
ISO 7027 Compliant

FEATURES

Dry Secondary Standard
Ultra Low Back Scatter
Auto-Clean Sensor

ACCESSORIES

De-Bubbler

COMPATIBLE MONITOR

7300w² Monitor



The TurbiTechw² LR Sensor has been specifically designed to monitor final treated, portable and filter water. The sensor is extremely sensitive and is capable of discriminating changes in Turbidity of less than 0.1 FTU. The 90° light scatter monitoring technique makes the sensor sensitive to a wide range of particle sizes, from colloidal material through to larger particles and raw waters and the large mineral particles sometimes found in distribution samples.

The unique sensor design captures stray light which ensures an ultra stable zero point, this is combined with an automatic self-cleaning mechanism that prevent the build up of fouling within the sample chamber. The measurement system includes a self monitoring loop that compensates for changes in optical performance.

The sensor requires very little maintenance, with no special tools or training required. Calibration can be carried out against either a wet Turbidity standard or using the dry calibration reference cell that is supplied with every sensor. The reference cell provide an extremely easy, repeatable method of checking the performance of the sensor without the cost and inherent errors associated with chemical standards.



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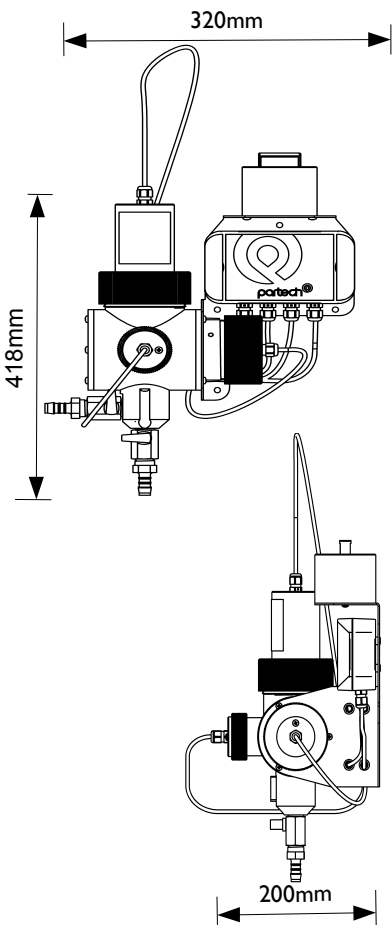
Rockhill Business Park, Higher Bugle, St Austell, Cornwall, UK, PL26 8RA



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Physical

Weight
Protection Class
Enclosure Material
Cable Entries
Wetted Parts
Process Connections

Cable Type
Cable Length
Service Requirement

Environmental Data

Operating Temperature
Storage Temperature

Interface to Monitor

Power Supply
Type

Measurement

Range
Accuracy

Resolution
Display Resolution

Repeatability
Measurement Principle
Wavelength/Frequency
Pressure Rating (Depth)
Flow Rate

Mounting

Installation Type

4.5 kg (inc 10 metres of cable)
IP68
Black Acetal Co-Polymer
Integral Cable Gland
Black Acetal, 316 Stainless Steel, Glass, Nitrile
Inlet and Drain: 1/2" BSP with 12 mm Hosetail
Outlet: 1/4" BSP with 8 mm Hosetail
4 Core, 2 Twisted Pair, 5mm O/D Polyurethane Coated
10 metres standard, 100 metres maximum
Annual wiper blade replacement (application dependent)

0 to 50°C
-20 to 60°C

12VDC from Monitor
ModTech - RS485

Low Range 0-30NTU, High Range 0-500NTU
+/-2% of reading or 0.1NTU (High Range)/0.02NTU (Low Range)
+/-2%
0.0001 NTU from 0.0000 to 9.9999 NTU
0.001 NTU from 10.000 to 49.999 NTU
0.01 NTU from 50.00 to 500.00 NTU
Better than +/-1% FSD on real sample
90° Light Scatter, ISO7027 Compliant
860nm
2 Bar/30psi
0.5 l/min to 5 l/min

For the purposes of this document 1NTU = 1FTU = 1FNU

Wall or Surface

Order Codes

Part No	Description
225125	TurbiTechw ² LR Sensor (Infrared Type) (Range: 0-30 FTU, Cable Length: 5 metres) includes Dry Calibration Standard
227386	TurbiTechw ² LR Sensor (Infrared Type) (Range: 0-500 FTU, Cable Length: 5 metres) includes Dry Calibration Standard

Publication No: I32242DS-Iss08
The company reserves the right to alter the specification without prior notice. E&OE



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