



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

FEATURES

Dry Secondary Standard
Ultra Low Back Scatter
Auto-Clean Sensor

ACCESSORIES

De-Bubbler
Sample Detection

COMPATIBLE MONITOR

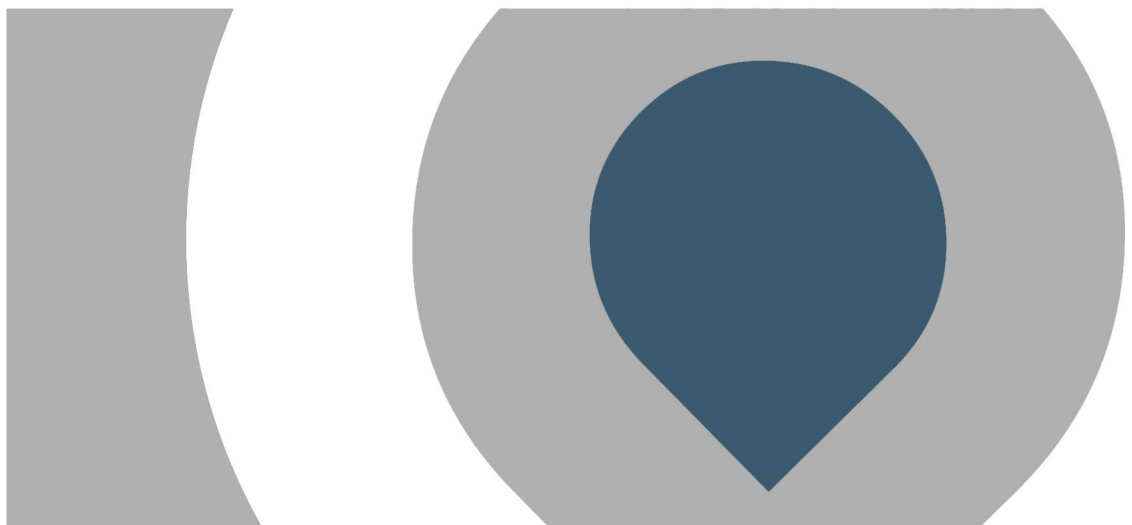
7300w² Monitor



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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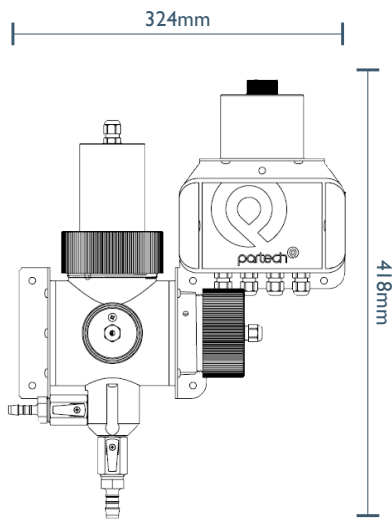




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Physical

Dimensions
Weight
Protection Class
Enclosure Material
Cable Entries
Wetted Parts
Process Connections

Seal Material
Cable Type
Cable Length
Service Requirement

Environmental Data

Operating Temperature
Storage Temperature
Location

Power Supply

Voltage

Interface to Monitor

Type

Measurement

Accuracy
Resolution
Repeatability
Measurement Principle
Response Time
Pressure Rating (Depth)
Flow Rate
Low Range
High Range

Mounting

Installation Type

440 x 200 x 200 mm (HxWxD)
4.5 kg (inc 10 metres of cable)
IP68
Black Acetal Co-Polymer
Integral Cable Gland
Black Acetal, 316 Stainless Steel, Glass
Inlet and Bypass: 1/2" BSP with 12 mm Hosetail
Outlet: 1/4" BSP with 8 mm Hosetail
Nitrile
4 Core, 2 Twisted Pair, 5mm O/D Polyurethane Coated
10 metres standard, 100 metres maximum
Automatic Self Cleaning
Wiper and Desiccant Replacement Yearly (application dependent)

0 to 50°C
-20 to 60°C
Indoor/Outdoor

12 VDC from Monitor

RS485

Better than +/-2% FSD on real sample
+/-1% FSD or better (0.1 FTU for low range version)
Better than +/-1% FSD on real sample
90° Light Scatter
90% of step change in 2 minutes at 1 l/min
1 Bar
0.5 l/min to 5 l/min
0 – 5 to 0 – 30 FTU
0 – 50 to 0 – 500 FTU
It has been assumed that 1 NTU = 1 FTU for the purposes of this statement, please refer to Partech for further details

Wall or Surface

Order Codes

Part No Description

223886 TurbiTech² LR Sensor
(Range: 0-5 to 0-30 FTU,
Cable Length: 2 metres,
Nitrile Wiper) c/w Dry
Calibration Standard

223888 TurbiTech² LR Sensor
(Range: 0-50 to 0-500 FTU,
Cable Length: 2 metres,
Nitrile Wiper) c/w Dry
Calibration Standard

Publication No: I32242DS-Iss04
The company reserves the right to
alter the specification without prior
notice. E&OE

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