



TurbiTechw² LR Sensor

Turbidity Sensor

PRODUCT DATASHEET

APPLICATIONS

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

MEASUREMENT PRINCIPLE

90° Light Scatter
Wavelength 860 nm
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, potable 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, raw water 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 prevents the build up of fouling within a 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 provides an extremely easy, repeatable method of checking the performance of the sensor, without the cost and inherent errors associated with chemical standards.

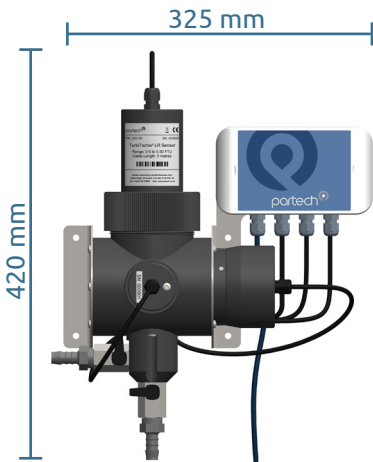
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Order Codes

Part No Description

225125 TurbiTechw² LR Sensor (Infrared Type) (Range: 0-30 FTU, Cable Length: 5 metres) includes Dry Calibration Standard

227386 TurbiTechw² LR Sensor (Infrared Type) (Range: 0-500 FTU, Cable Length: 5 metres) includes Dry Calibration Standard

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The company reserves the right to alter the specification without prior notice. E&OE

Physical

Dimensions 420 x 325 x 255 mm (HxWxD)
 Weight 4.5 kg (inc 5 metres of cable)
 Protection Class IP65
 Electronics Enclosure ABS
 Cable Entries Integral Cable Gland
 Wetted Parts Black Acetal, 316 Stainless Steel, Glass, Nitrile
 Cable Type 4 core, 2 Twisted Pair, 5 mm O/D Polyurethane Coated
 Cable Length 5 metres standard, 100 metres maximum
 Service Requirement Wiper blade replacement as required

Environmental Data

Operating Temperature 0 to 50 °C

Interface to Monitor

Power Supply 12 VDC from 7300w² Monitor
 Sensor Output RS485

Measurement

Low Range 0-30 FTU
 Accuracy ±2% of measured value or ±0.02 NTU whichever is greater
 Limit of Detection 0.02 FTU
 Minimum Operating Range 0 - 3 FTU

High Range 0-500 FTU
 Accuracy ±2% of measured value or ±0.1 FTU whichever is greater
 Limit of Detection 1 FTU
 Minimum Operating Range 0 - 50 FTU

Display Resolution 0.0001 FTU from 0.0000 to 9.9999 NTU
 0.001 FTU from 10.000 to 49.999 NTU
 0.01 FTU from 50.00 to 500.00 NTU

Measurement Principle 90° Light Scatter, ISO 7027 Compliant
 Wavelength 860 nm
 Pressure Rating 1 Bar/14.5 psi
 Flow Rate 0.5 l/min to 5 l/min

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

Mounting

Installation Type Wall or Surface

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