

TurbiTechw² LR Sensor

Turbidity Sensor

PRODUCT DATASHEET

APPLICATIONS

Raw Water **Process Control**

MEAUSREMENT PRINCPLE

90° Light Scatter

Auto-Clean Sensor

ACCESSORIES

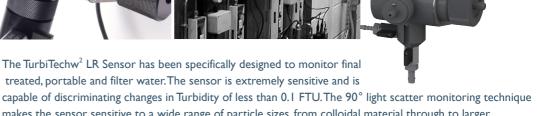
De-Bubbler

COMPATIBLE MONITOR

7300w² Monitor





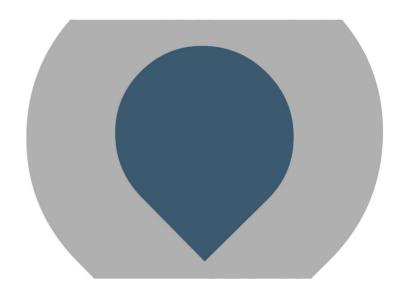


treated, portable and filter water. The sensor is extremely sensitive and is capable of discriminating changes in Turbidity of less than 0.1 FTU. The 90° light scatter monitoring technique makes the sensor sensitive to a wide range of particle sizes, from colloidal material through to larger particles 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.





Call us on +44 (0) 1726 879800 www.partech.co.uk

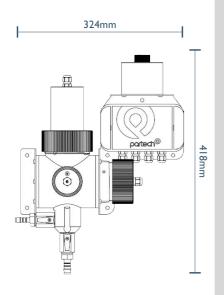




TurbiTechw² LR Sensor

Turbidity Sensor

PRODUCT DATASHEET



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

Туре

Measurement

Accuracy

Resolution

Repeatability

Measurement Principle

Response Time

Pressure Rating (Depth)

Flow Rate

Low Range

High Range

Installation Type

Publication No: 132242DS-lss05

The company reserves the right to alter the specification without prior

notice. E&OE

Order Codes

223888

Part No Description223886 TurbiTechw² LR Sensor

(Range: 0-5 to 0-30 FTU,

Cable Length: 2 metres,

Nitrile Wiper) c/w Dry

TurbiTechw² LR Sensor

Cable Length: 2 metres,

Nitrile Wiper) c/w Dry

Calibration Standard

(Range: 0-50 to 0-500 FTU,

Calibration Standard

 $440 \times 200 \times 200 \text{ mm (HxWxD)}$ 4.5 kg (inc 10 metres of cable)

IP68

Black Acetal Co-Polymer

Integral Cable Gland

Black Acetal, 316 Stainless Steel, Glass

Inlet and Drain: 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

I 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 I NTU = I FTU for the purposes of this statement, please refer to Partech for further details

Wall or Surface

See 224046DS

