# TurbiTechw² LR Sensor
## Turbidity Sensor

PRODUCT DATASHEET

## APPLICATIONS

Raw Water
Final Water Montioring
Filitered 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

## ACESSORIES

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 throughto 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 thats 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 chemcial standards.
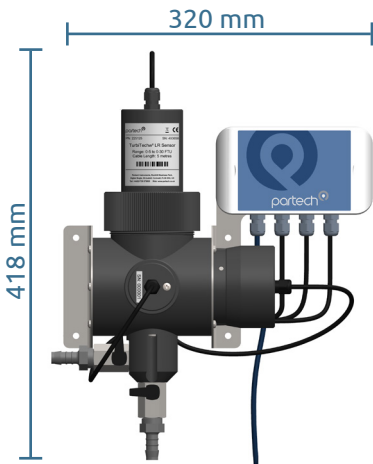
# TurbiTechw² LR Sensor
## Tubidity Sensor

PRODUCT DATASHEET

320 mm

418 mm

## Physical

| | |
|---|---|
| Dimensions | 418 x 320 x 200 mm (HxWxD) |
| Weight | 4.5 kg (inc 5 metres of cable) |
| Protection Class | IP68 |
| Enclosure Material | Black Acetal Co-Polymer |
| 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 | 12VDC from Monitor |
| Sensor Output | ModTechw², RS485 |

## Measurement

| | |
|---|---|
| Range | Low Range 0-30NTU, High Range 0-500NTU |
| Accuracy | ±2% of reading or 0.1NTU (High Range)/0.02NTU (Low Range) |
| Display Resolution | 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 |
| Measurement Principle | 90° Light Scatter, ISO 7027 Compliant |
| Wavelength | 860 nm |
| Pressure Rating | 2 Bar/30 psi |
| Flow Rate | 0.5 l/min to 5 l/min |

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

## Mounting

| | |
|---|---|
| Installation Type | Wall or Surface |

## 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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