



TurbiTechw² LS

Suspended Solids and Turbidity Sensor

PRODUCT DATASHEET

APPLICATIONS

Final Effluent Turbidity
Final Effluent Solids
Inlet Solids
Primary Settled Sewage
Surface Water

MEASUREMENT PRINCIPAL

90° Light Scatter
Wavelength 860nm
ISO 7027 Compliant

FEATURES

Fully automatic Self Cleaning
Flexible Mounting System
Large Optical Surface

BENEFITS

Automated Aeration Control
Low Cost of Ownership

COMPATIBLE MONITOR

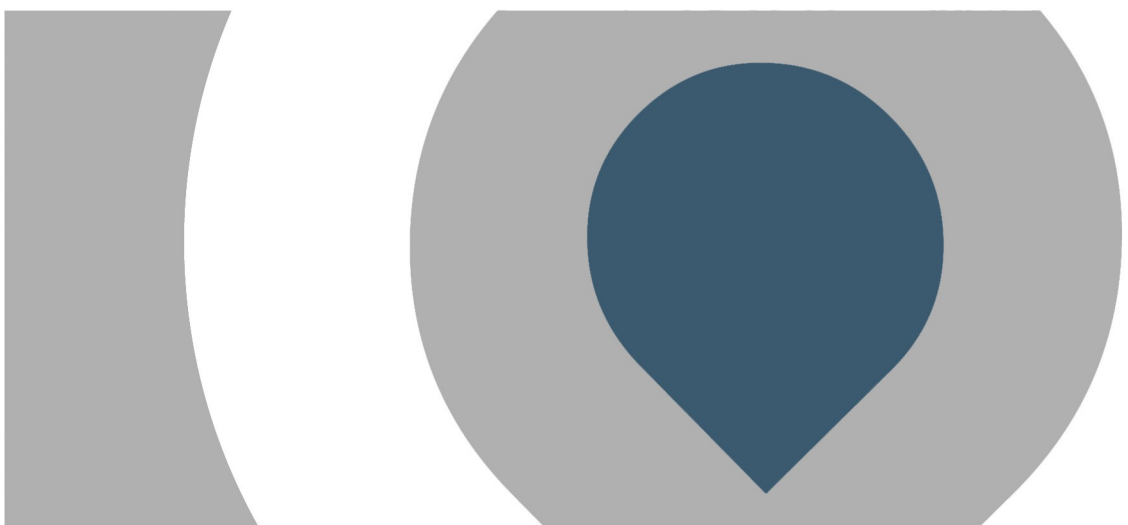
7300w² Monitor



The TurbiTechw² LS Sensor is designed to monitor the levels of Suspended Solids or Turbidity typically found in Final Effluent from municipal and industrial wastewater treatment plants. It is also capable of monitoring solids in the intake to both effluent and drinking water treatment processes. The normal operating range is between 0 - 500 FTU, with versions of the sensor suitable for 0-100FTU and 0-1,000 FTU ranges available.

Monitoring of these key parameters requires sensors that are reliable and accurate, the TurbiTechw² LS fills this requirement perfectly. The large optical surfaces and sample volume ensure that the information provided by the sensor is both representative of the process and tolerant of fouling. In addition the sensor incorporates a self cleaning mechanism that ensures that the optical surfaces are kept clean at all times, the cleaning system is designed to avoid problems with ragging and does not smear the optical system. The cleaning system ensures that manual intervention on a routine basis is not required, the sensor should simply be checked as part of general site housekeeping.

The TurbiTechw² LS Sensor employs infrared light at 860nm using the 90° Light Scatter principle in accordance with ISO7027 (2000). The cleaning process is automatically initiated by the 7300w² Monitor at a user determined frequency. The cleaning process takes only 90 seconds, which means that the sensor is available for 99.5% of the time with a 5 hourly cleaning cycle.



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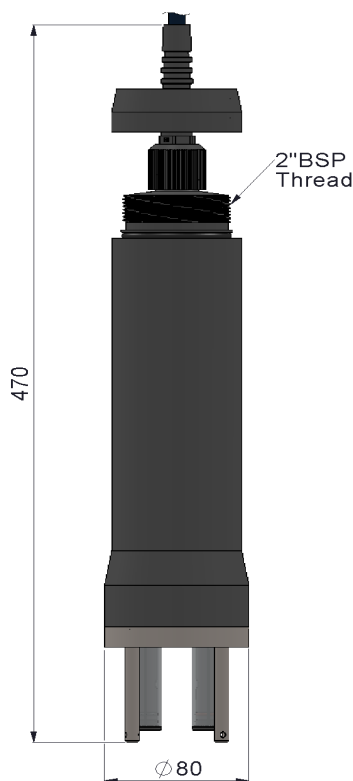
Rockhill Business Park, Higher Bugle, St Austell, Cornwall, UK, PL26 8RA



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Physical

Weight
Protection Class
Enclosure Material
Cable Entries
Wetted Parts
Cable Type
Cable Length
Service Requirement

Environmental Data

Operating Temperature
Storage Temperature

Interface to Monitor

Power Supply
Type

Measurement

Range

Accuracy
Display Resolution
Repeatability
Measurement Principle
Wavelength/Frequency
Pressure Rating (Depth)

Flow Rate

Suspended Solids Ranges

Mounting

Installation Type
Mounting Shaft
Handrail Attachment

2.2 kg (inc 10 metres of cable)

IP68

Black Acetal Co-Polymer

Integral Cable Gland

Black Acetal, 316 Stainless Steel, Glass, Polyurethane, Nitrile

4 core, 2 Twisted Pair, 5mm O/D Polyurethane Coated

10 metres standard, 100 metres maximum

Automatic Self Cleaning

Seal Service every 3500 cleans (application dependent)

0 to 50°C

-20 to 60°C

12 VDC from Monitor

RS485

0-100, 0-500, 0-1,000* NTU

Range must be specified when ordering

*not suitable for measuring <10NTU

+/- 5% of Reading or 1NTU whichever is greater

0.01NTU

Better than +/-1%

90° Light Scatter, ISO 7027 compliant

860nm Infrared

1Bar or 14.5 psi

Not suitable for Inline use

Not affected by flowrate, avoid dead spots and extreme turbulence

The actual measuring range will depend on the nature of the sample being monitored.

Dip, or Open Flowcell

1.0 to 3 metres in 1.0 metre increments

Contact Partech for a full range of mounting options

Order Codes

Part No	Description
223510	TurbiTechw ² LS Sensor (Range: 0-500 FTU, Cable Length: 10 metres, Nitrile Seals)
226447	TurbiTechw ² LS Sensor (Range: 0-100 FTU, Cable Length: 10 metres, Nitrile Seals)
225455	TurbiTechw ² LS Sensor (Range: 0-1,000 FTU, Cable Length: 10 metres, Nitrile Seals)

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



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