



Turbi-Tech 2000LS

Suspended Solids or Turbidity Sensor

PRODUCT DATASHEET

APPLICATIONS

Final Effluent Turbidity
Final Effluent Solids
Inlet Solids
Surface Water

MEASUREMENT PRINCIPAL

90° Light Scatter
ISO 7027 Compliant

FEATURES

Fully automatic Self Cleaning
Flexible Mounting System
Large Optical Surface

BENEFITS

Automated Aeration Control
Low Cost of Ownership

COMPATIBLE MONITOR

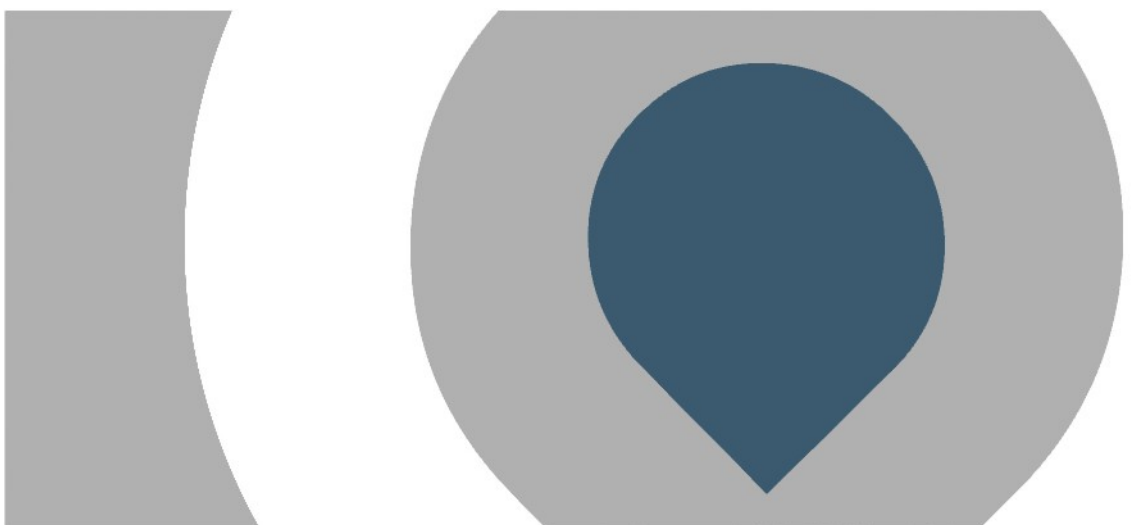
7200 Monitor



The Turbi-Tech 2000LS 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 - 50 and 0 - 500 FTU which can be extended for some applications.

Monitoring of these key parameters requires sensors that are reliable and accurate, the Turbi-Tech 2000LS 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 Turbi-Tech 2000LS Sensor employs Infrared light at 860 nm using the 90° Light Scatter principle in accordance with ISO7027 (2000). The cleaning mechanism is then sealed by 2 Nitrile 'H' Rings that finish the cleaning process. The cleaning process is automatically initiated by the 7200 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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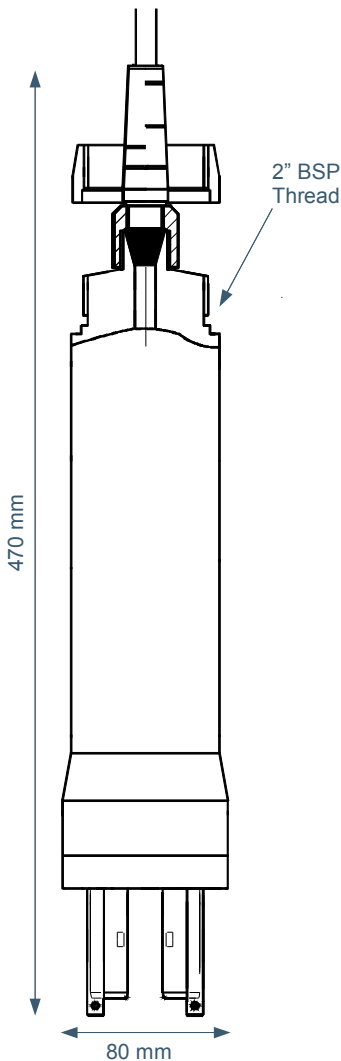




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Physical

Weight
Dimensions
Enclosure Rating
Enclosure Material
Cable Entries
Wetted Parts
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
Wavelength/Frequency
Response Time
Pressure Rating (Depth)
Flow Rate

Maximum Range

Minimum Range

Software

Remote Programming

Mounting

Installation Type
Mounting Shaft
Handrail Attachment
Stilling Tube

2.2 kg (inc 10 metres of cable)
80 mm diameter x 470 mm long
IP68
Black Acetal Co-Polymer
Integral Cable Gland
Black Acetal, 316 Stainless Steel, Glass
Polyurethane and Nitrile (Viton option)
6 core, 9mm 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
Indoor/Outdoor

12VDC from 7200 Monitor

0-5 mA

Better than +/-5% FSD on real sample
Dependent on range setting, typically +/-2%
Better than +/-1% FSD on real sample
90° Light Scatter, ISO 7027 compliant
860 nm Infrared
0.5 seconds - damping provided by monitor
10 mWC
Not affected by flowrate, avoid dead spots and extreme turbulence
0 – 500 FTU or mg/l, extendible to 1000 FTU for some applications
0 – 50 FTU or mg/l
Measuring range will depend on the nature of the sample being monitored

No

Dip, Flowcell or Stilling Tube
0.5 to 3 metres in 0.5 metre increments
Part Numbers 160000 + 160080
Available

Publication No: I84230DS-Iss05
The company reserves the right to alter the specification without prior notice. E&OE

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