Bestobell AQUATRONIX
SINCE / DEPUIS 1953

BEP-Bestobell
www.bestobell.com

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
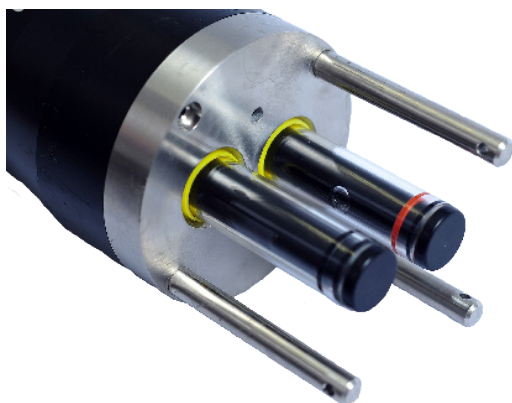Wavelength 860nm
ISO 7027 Compliant

FEATURES

Fully automatic Self Cleaning
Flexible Mounting System
Large Optical Surface

BENEFITS

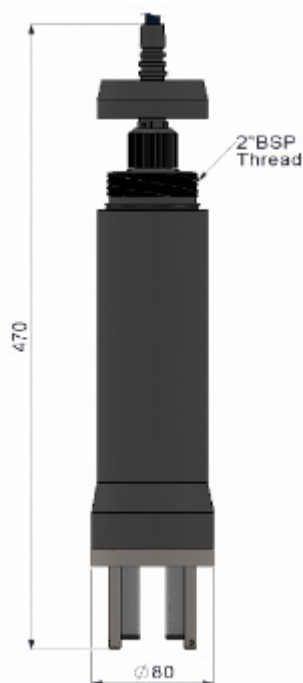Automated Aeration Control
Low Cost of Ownership

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 great at monitoring solids in the intake to both effluent and drinking water treatment processes.

Monitoring of these key parameters requires sensors that are reliable accurate, the TurbiTechw² LS meets 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 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 process takes only 90 seconds, which means that the sensor is available for 99.5% of the time with a 6 hour cleaning cycle.

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PRODUCT SPECIFICATION

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2"BSP Thread

470

Ø80

Order Codes
Part No   Description

223510   TurbiTechw² LS Sensor (Range: 0-500 FTU, Cable Length: 10 metres, Nitrile Seals)

226447   TurbiTechw² LS Sensor (Range: 0-100 FTU, Cable Length: 10 metres, Nitrile Seals)

225455   TurbiTechw² LS Sensor (Range: 0-1000 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

Physical

Dimensions	470 x Ø80 mm
Weight	2.2kg (inc 10 metres of cable)
Protection Class	IP68
Enclosure Material	Black Acetal Co-Polymer,
Cable Entries	Intergral Cable Gland
Wetted Parts	Black Acetal, 316 Stainless Steel, Glass, Polyurethane, Nitrile
Cable Type	4 core, 2 Twisted Pair, 9 mm O/D Polyurethane,
Cable Length	10 metres, 100 metres maximum
Service Requirement	Automatic Self Cleaning
	Seal Service every 3500 cleans (appication dependent)

Environmental Data

Operating Temperature	0 to +50°C

Interface to Monitor

Power Supply	12 VDC from Monitor
Sensor Output	ModTechw², RS485

Measurement

Range	0-100 FTU
Accuracy	±5% of measured value or ±0.5 FTU whichever is greater
Limit of Detection	0.5 FTU
Minimum Operating Range	0 - 10 FTU
Range	0-500 FTU
Accuracy	±5% of measured value or ±2.5 FTU whichever is greater
Limit of Detection	2.5 FTU
Minimum Operating Range	0 - 50 FTU
Range	0-1,000 FTU
Accuracy	±5% of measured value or ±5 FTU whichever is greater
Limit of Detection	5 FTU
Minimum Operating Range	0 - 100 FTU
Measurement Principle	90° Light Scatter ISO 7027 Compliant
Wavelength	860nm Infrared
Pressure Rating (Depth)	1Bar or 14.5 psi
Flowrate	Not affected by flowrate, avoid deadspots and extreme turbulence
Units	User Selectable mg/l, g/l, ppm, %SS, FTU, NTU

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

Mounting

Installation Type	Dip
Mounting Shaft	1.0 to 3 metres in 1 metre increments
Handrail Attachment	Contact Partech for a full range of mounting options

partech

CE FC UK CA