



TurbiTechw² LA

Suspended Solids Sensor

PRODUCT DATASHEET

APPLICATIONS

Mixed Liquor
Aeration Basin
Oxidation Ditch
Returned Activated Sludge
Surplus Activated Sludge

MEASUREMENT PRINCIPAL

Light Attenuation
Wavelength 860nm

FEATURES

Fully Automatic Self Cleaning
Flexible Mounting System
Large Optical Surface

BENEFITS

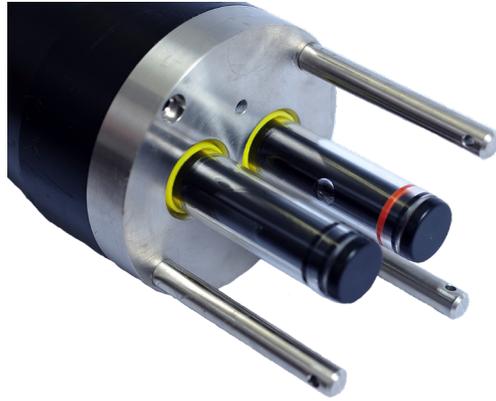
Automated Aeration Control
Low Cost of Ownership

COMPATIBLE MONITOR

7300w² Monitor

ALTERNATIVE SENSORS

TurbiTechw² HR
SoliTechw² IL



The TurbiTechw² LA Sensor has been designed for use in aeration systems monitoring suspended solids also known as mixed liquor suspended solids or activated sludge where solids are typically in the range of 1,500 to 3,500 mg/l.

The sensor can also measure Returned Activated Sludge (RAS), Surplus Activated Sludge (SAS) and suspended solids turbidity. The fully automatic self cleaning system that manual intervention on routine is not required.

The large optical surface and sample volume combine to ensure that the sensor is providing information that is reliable and representative of solids present in the process. Deposits of fats and grease on the sensing area do not prevent the sensor from measuring unlike sensors with small optical surfaces. In addition, the sensor incorporates a self cleaning mechanism that ensures 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.

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



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Suspended Solids Sensor

PRODUCT SPECIFICATION



Physical

Dimensions
Weight
Protection Class
Enclosure Material
Cable Entries
Wetted Parts

Cable Type
Cable Length
Service Requirement

Environmental Data

Operating Temperature

Interface to Monitor

Power Supply
Sensor Output

Measurement

Range
Accuracy
Limit of Detection
Minimum Operating Range
Measurement Principle
Wavelength
Pressure Rating (Depth)
Flow Rate
Units

Mounting

Installation Type
Mounting Shaft
Handrail Attachment

470 x Ø80 mm
2.2 kg (inc 10 metres of cable)
IP68
Black Acetal Co-Polymer
Intergral Cable Gland
Black Acetal, 316 Stainless Steel, Glass, Polyurethane, Nitrile
4 core, 2 Twisted Pair, 9 mm O/D Polyurethane Coated
10 metres standard, 100 metres maximum
Automatic Self Cleaning
Seal Service every 3500 cleans (application dependent)

0 to +50°C

12VDC from Monitor
ModTechw², RS485

0 - 20,000 mg/l
±5% of measured value or 100 mg/l whichever is greater
100 mg/l
0 - 2,000 mg/l
Light Attenuation
860 nm Infrared
1Bar or 14.5 psi
Not affected by flow rate, avoid dead spots and extreme turbulence
User Selectable mg/l, g/l, ppm, %SS, FAU

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

Dip
1.0 to 3 metres in 1 metre increments
Contact Partech for a full range of mounting options

Order Codes

Part No Description

- 223617 TurbiTechw² LA Sensor
(Cable Length: 10 metres, Nitrile Seals)
- 223872 TurbiTechw² LA Sensor
(Cable Length: 20 metres, Nitrile Seals)
- 223873 TurbiTechw² LA Sensor
(Cable Length: 10 metres, Viton Seals)
- 223874 TurbiTechw² LA Sensor
(Cable Length: 20 metres, Viton Seals)

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

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