



SoliTechw² IR Sensors

Suspended Solids Sensor - Portable Use

PRODUCT DATASHEET

APPLICATIONS

Suspended Solids Monitoring
Mixed Liquor (MLSS)
Aeration Basin
Oxidation Ditch
Returned Activated Sludge
Surplus Activated Sludge
Final Effluent Suspended Solids
Sludge Blanket Level
Filter Breakthrough Monitoring
Activated Sludge

FEATURES

Robust Design
Simple to use
Low cost of Ownership
High Sensitivity

COMPATIBLE SENSORS

750w² Monitor



Partech's range of SoliTechw² IR infrared sensors can be used for the measurement of suspended solids, sludge density, and turbidity in a wide range of applications, which includes Mixed Liquor (MLSS), Total Suspended Solids (TSS) and Sludge Blanket Detection.

The sensor has been designed as a robust and accurate method of portable detection. The machined housing provides excellent resistance to impact, temperature and chemical attack and the only maintenance required is periodic cleaning of the optical surfaces.

The SoliTechw² IR sensors are connected to the 750w² Portable unit via a high quality IP68 connector. The sensors are interchangeable, allowing a customer to use the same 750w² portable unit at different locations with different sensors.

The SoliTechw² IR Sensors come in 4 different ranges to maximise accuracy over a diverse range of applications. The 750w² and SoliTechw² IR combination make this the most flexible Suspended Solids, Turbidity and Sludge Density portable product range available on the market.

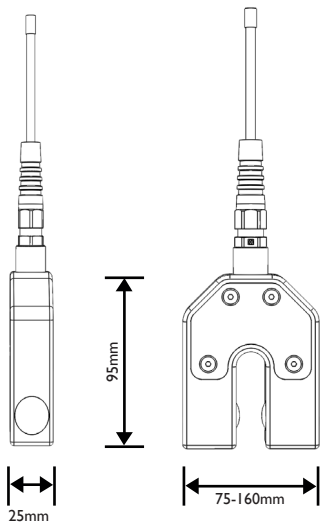
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Physical

Dimensions
Weight
Nominal Gap Size

Protection Class
Enclosure Material
Cable Connection
Cable Length
Cable Type
Service Requirement

Environmental Data

Operating Temperature

Measurement

Measurement Principle
Wavelength
Units

Sensor Selection

SoliTechw² IR Sensor 0 - 200

Range
Accuracy
Limit of Detection
Minimum Operating Range

SoliTechw² IR Sensor 0 - 1,500

Range
Accuracy
Limit of Detection
Minimum Operating Range

SoliTechw² IR Sensor 0 - 10,000

Range
Accuracy
Limit of Detection
Minimum Operating Range

SoliTechw² IR Sensor 0 - 30,000

Range
Accuracy
Limit of Detection
Minimum Operating Range

95 x 25 mm (H x D)
0.7 kg inc 5m of cable
0-200 mg/l Range: 100 mm
0-1,500 mg/l Range: 40 mm
0-10,000 mg/l Range: 15 mm
0-30,000 mg/l Range: 8 mm
IP68
Black Acetal Co-Polymer
4 Way Circular Plug
10 metres standard, 100 metres maximum
4 core, 2 twisted pair 5mm O/D Polyurethane Coated
No routine servicing

0 to 60°C

Light Attenuation
960 nm
mg/l, g/l %, NTU, FTU, FNU, FAU

0 - 200
±5% of measured value or ±1 mg/l whichever is greater
1 mg/l
0 - 20 mg/l

0 - 1,500
±5% of measured value or ±7.5 mg/l whichever is greater
7.5 mg/l
0 - 150 mg/l

0 - 10,000
±5% of measured value or ±50 mg/l whichever is greater
50 mg/l
0 - 1000 mg/l

0 - 30,000
±5% of measured value or ±150 mg/l whichever is greater
150 mg/l
0 - 3000 mg/l

*Suspended Solids Range is dependent on the sample being measured.

For the purposes of this datasheet: 1NTU=1FTU=1FNU=1FAU

Order Codes

Part No Description

- 228934 SoliTechw² IR Sensor for 750w² Monitor (Range 0-200, Cable Length 5m)
- 228935 SoliTechw² IR Sensor for 750w² Monitor (Range 0-1,500, Cable Length 5m)
- 228808 SoliTechw² IR Sensor for 750w² Monitor (Range 0-10,000, Cable Length 5m)
- 228933 SoliTechw² IR Sensor for 750w² Monitor (Range 0-30,000, Cable Length 5m)

(10 metre cable also available)

Publication No: 228934DS-Iss15

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



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