

SoliTechw² IR Sensors

Suspended Solids Sensor

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

MEASURING PRINCIPLE

Infrared Attenuation
Manual Cleaning

BENEFITS

Simple to Use
Low cost of ownership
High Sensivity

COMPATIBLE MONITORS

7300w² Monitor

ALTERNATIVE SENSORS

TurbiTechw² LA
TurbiTechw² LS
TurbiTechw² HR
SludgeWatch-
8200w²



Partech's range of infrared sensors can be used for measurement of suspended solids, sludge density, and turbidity in a wide range of applications, which includes Mixed Liquor and Final Effluent Suspended Solids and Sludge Blanket Detection. The sensor has been designed as a low cost option to our self-cleaning sensor, the only maintenance required is periodic cleaning of the optical surfaces. The sensors are equally applicable to measurement of Suspended Solids or Turbidity giving a low cost option.

Installation of sensor is extremely straightforward, in many applications the sensor is simply hung from the cable using a mounting bracket. This allows immediate access from cleaning without the hassle of a mounting shaft. In applications where the sensor is to be placed in a flow, a mounting shaft can be added to the sensor and a range of mounting brackets are available to suit most applications.

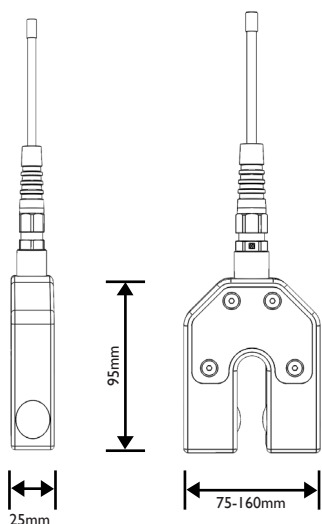
The SoliTechw² IR Sensors come in 4 different ranges to maximise accuracy over a diverse range of applications. The machined housing provides excellent resistance to impact, temperature and chemical attack.



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Order Codes

Part No Description

- 223893 SoliTechw² IR Sensor
(Range: 0-200,
Cable Length: 10
metres)
- 223895 SoliTechw² IR Sensor
(Range: 0-1,500,
Cable Length: 10
metres)
- 223897 SoliTechw² IR Sensor
(Range: 0-10,000,
Cable Length: 10
metres)
- 223899 SoliTechw² IR Sensor
(Range: 0-30,000,
Cable Length: 10
metres)

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

Physical

Dimensions
Weight
Nominal Gap Size

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

Environmental Data

Operating Temperature

Interface to Monitor

Power Supply
Sensor Output

Measurement

Measurement Principle
Pressure Rating (Depth)
Flow Rate

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 10 metres 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
Integral Cable Gland
4 core, 2 Twisted Pair, 5 mm O/D Polyurethane Coated
10 metres standard, 100 metres maximum
No Routine servicing
Will require manual cleaning, frequency is application dependent

0 to 60°C

12VDC from Monitor
ModTechw², RS485

Light Attenuation, 960 nm Infrared
10 mWC
Not affected by flowrate

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

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