



Suspended Solids Sensors

Infrared and Soli-Tech 20v2 Sensor Specification

PRODUCT DATASHEET

APPLICATIONS

Final Effluent Suspended Solids
Filter Breakthrough Monitoring
Activated Sludge

MEASURING PRINCIPLE

Infrared Attenuation
Manual Cleaning

BENEFITS

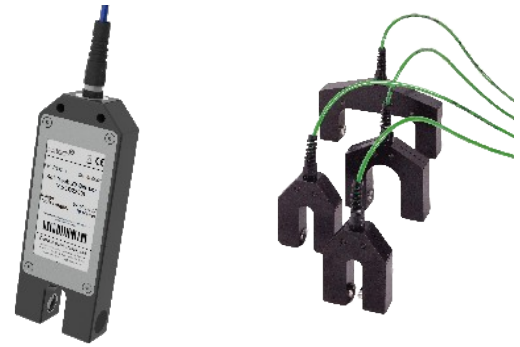
Simple to Use
Low cost of ownership
High Sensitivity

COMPATIBLE MONITORS

7200 Monitor

ALTERNATIVE APPLICATIONS

The same sensors can be applied to
Sludge Blanket Detection – see
Datasheet 184260DS

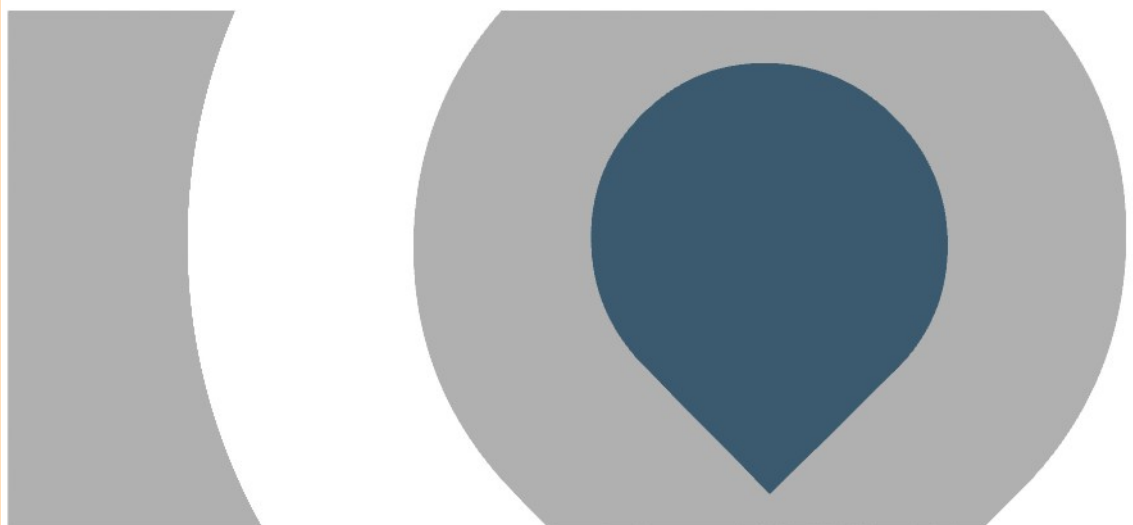


Partech's range of infrared sensors can be used for the measurement of suspended solids, sludge density, and turbidity in a wide range of applications, which includes Mixed Liquor and Final Effluent Suspended Solids, and Sludge Blanket Detection. The sensor has been designed as a low cost option to our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

Installation of the sensor is extremely straightforward, in many applications the sensor is simply hung from the cable using a mounting bracket. This allows immediate access for 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.

Soli-Tech 20 Sensors: available in 3 ranges, these sensors benefit from a machined housing and offer excellent resistance to temperature and chemical attack.

Infrared Sensors: available in 4 ranges, these sensors are preferred when fouling of the sensor 'gap' is an issue and are easier to clean.



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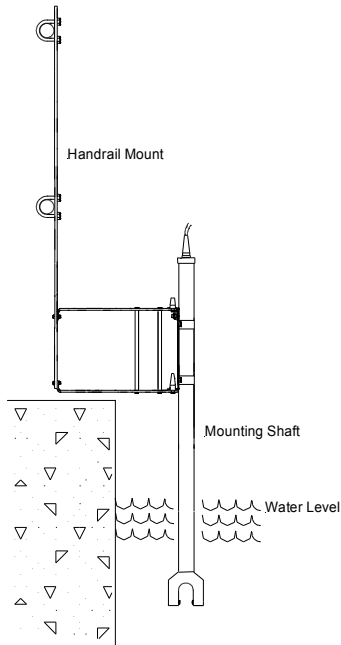




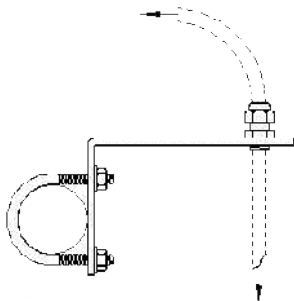
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Typical Mounting Shaft Combination



Simple Cable Mounting

Physical

Weight
Dimensions

Enclosure Rating
Enclosure Material
Cable Entries
Seal Material
Cable Type
Cable Length
Service Requirement

Environmental Data

Operating Temperature
Storage Temperature
Location

Power Supply

Voltage

Interface to Monitor

Type

Measurement Characteristics

Accuracy
Repeatability

Measurement Principle
Wavelength/Frequency
Pressure Rating (Depth)
Flow Rate

Sensor Selection

IR 100
Soli-Tech 20v2 0-1500 or IR40
Soli-Tech 20v2 0-10000 or IR15
Soli-Tech 20v2 0-30000 or IR8

Mounting

Installation Type
Handrail Attachment

Infrared Sensors

0.35 kg (inc 10 metres of cable)
IR100 Gap Size 100 mm
IR40 Gap Size 40 mm
IR15 Gap Size 15 mm
IR8 Gap Size 8 mm

IP68

Moulded Epoxy Resin, Hastelloy C

Integral Cable Gland

Nitrile

3 core, 5mm 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

-20 to 60°C

Indoor/Outdoor

12VDC from 7200 Monitor

PWM Digital Signal

+/- 5% FSD

+/- 1% FSD

Accuracy and Repeatability will depend on the settling characteristics of the solids and can vary during operation of the plant.

Light Attenuation

960 nm Infrared

10 mWC

Not affected by flowrate

Nominal Range (mg/l)

0 – 200

0 – 1,500

0 – 10,000

0 – 30,000

Typical Application

Final Effluent Suspended Solids/Turbidity

Filter Break through

Activated Sludge

Special applications

Handrail mounted supported by cable.

Part Number 171290

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

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