Sludge Blanket Sensors

Infrared and Soli-Tech 20v2 Sensor Specification

PRODUCT DATASHEET

APPLICATIONS

Sewage Treatment – Primary Tanks
– Final Tanks

Water Treatment – Clarifers
– WRc Thickeners
Lamella Separators

MEASURING PRINCIPLE

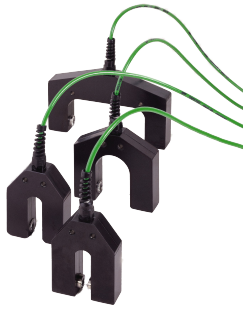
Infrared Attenuation

BENEFITS

Simple to Use
Low cost of ownership
High Sensitivity
Early Warning of Blanket Failure

COMPATIBLE MONITORS

715 Portable
8100 Monitor
8200 Monitor
ASLD2200 Monitor



Partech offer a selection of sensors that for use in conjunction with our range of Sludge Blanket monitoring instruments. All the sensors use infrared attenuation as their operating principle, this makes them sufficiently sensitive for use on thin water treatment sludges as well as the more usual sewage treatment applications.

When monitoring the Sludge Blanket Level in settlement tanks it is important to ensure that the sensor is sensitive enough to detect low density solids before 'carry-over' to the next process stage occurs, ensuring that potential pollution events are highlighted before they occur. At the same time the sensor should not be 'blinded' by solids in the supernatant. Advice on sensor selection is included in the brochure and our engineers are available to provide further advice if required.

Soli-Tech 20v2 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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PRODUCT DATASHEET

	IR100	IR40	IR15	IR8	Soli-Tech 20v2 Sensors
Physical					
Dimensions (Gap size mm)	100	40	15	8	247mm x73mm x30mm (HxWxD)
Weight	0.35 kg (inc 10 metres of cable)				0.7 kg (inc 10 metres of cable)
Protection Class	IP68				
Enclosure Material	Moulded Epoxy Resin, Hastelloy C				Black Acetal Co-Polymer
Cable Entries	Integral Cable Gland				
Seal Material	Nitrile				
Cable Type	3 core, 5mm O/D Polyurethane Coated				
Cable Length	10 metres standard, 100 metres maximum				
Service Requirement	No routine servicing Will require manual cleaning, frequency is application dependent				
Environmental Data					
Operating Temperature	-10 to 60°C				
Storage Temperature	-20 to 80°C				
Location	Indoor/Outdoor				
Electrical					
Power Supply	12VDC from 715/8100/8200/ASLD2200 Monitor				
Interface to Monitor					
Type	PWM Digital Signal				
Measurement Characteristics					
Accuracy	+/- 10 mm Accuracy will depend on the settling characteristics of the solids and can vary during operation of the plant.				
Measurement Principle	Light Attenuation				
Wavelength/Frequency	960 nm Infrared				
Pressure Rating (Depth)	10 mWC				
Flow Rate	Not affected by flowrate				
Sensor Selection					
Nominal Range (mg/l)	Application				
0 – 200	WTW Clarifier				
0 – 1,500	WTW Clarifier, STW Final Settlement				
0 – 10,000	WTW Thickener, STW Primary Tank				
0 – 30,000	STW Thickener				
Mounting					
Installation Type	Handrail mounted supported by cable.				
Handrail Attachment	Part Number 171290				

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

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.