



Sludge Blanket Sensors

Infrared and Soli-Tech 20v2 Sensor Specification

PRODUCT DATASHEET

APPLICATIONS

Sewage Treatment – Primary Tanks
– Final Tanks

Water Treatment – Clarifiers
– WRc Thickeners
Lamella Separators

MEASURING PRINCIPLE

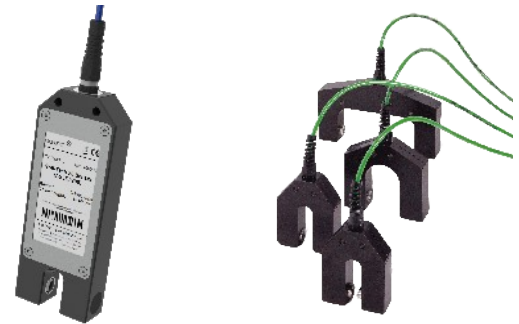
Infrared Attenuation

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

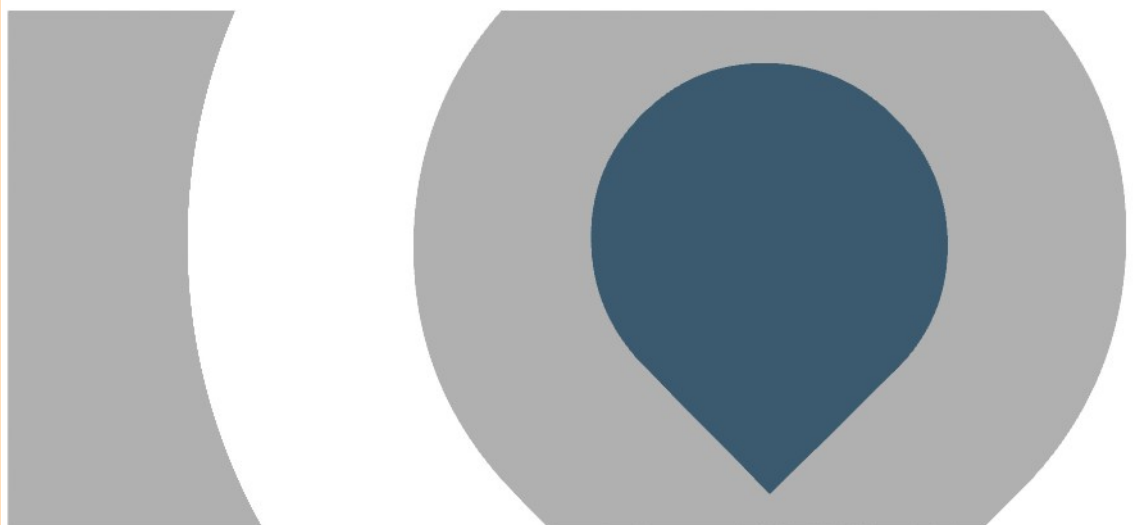


Partech offer a selection of sensors that for use in conjunction with our range of Sludge Blanket monitoring instruments. All the sensors use infrared attenuation as their operating principle, this makes them sufficiently sensitive for use on thin water treatment sludges as well as the more usual sewage 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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Physical	Infrared Sensors	Soli-Tech 20v2 Sensors
Weight	0.35 kg (inc 10 metres of cable)	0.7 kg (inc 10 metres of cable)
Dimensions	IR100 Gap Size 100 mm 247mm x 73mm x 30mm IR40 Gap Size 40 mm IR15 Gap Size 15 mm IR8 Gap Size 8 mm	
Enclosure Rating	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	0 to 60°C	
Storage Temperature	-20 to 60°C	
Location	Indoor/Outdoor	
Power Supply		
Voltage	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

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FLUIDQUIP AUSTRALIA
UV DISINFECTION · MONITORING · CONTROL

12 Carl Court, Hallam, Vic. 3803, Australia
03 8795 7711 | www.fluidquip.com.au | fluidquip@fluidquip.com.au

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