



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

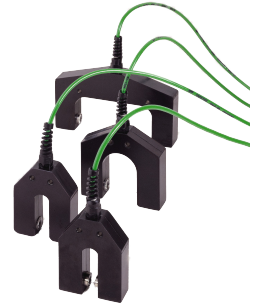
Infrared Attenuation

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

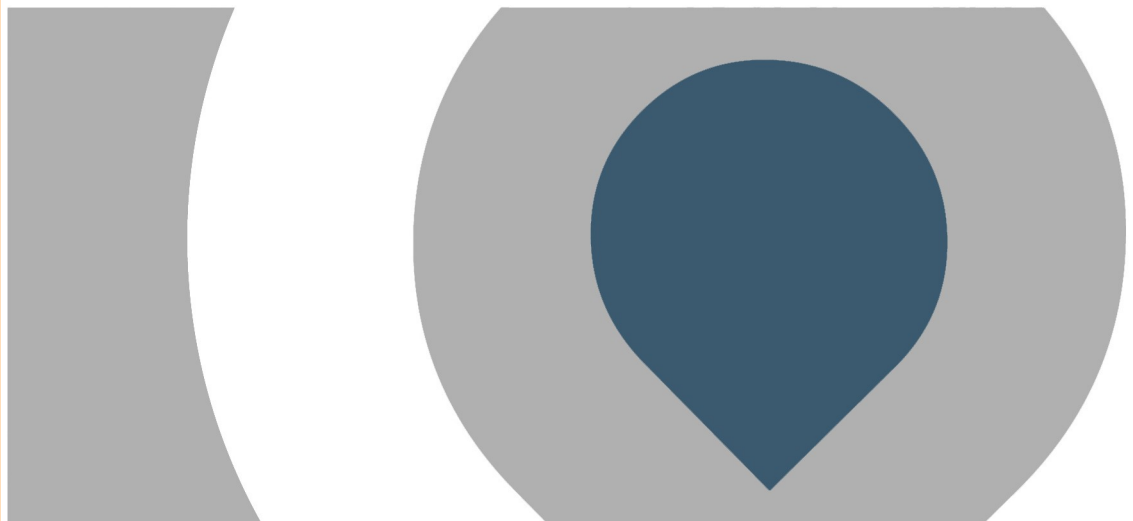


Partech offer a selection of sensors that for use in conjunction with our range of Sludge Blanket monitoring instruments. All the sensors use infrared attenuation as their operating principle, this makes them sufficiently sensitive for use on thin water treatment sludges as well as the more usual sewage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

Physical

Dimensions (Gap size mm)

Weight

Protection Class

Enclosure Material

Cable Entries

Seal Material

Cable Type

Cable Length

Service Requirement

Environmental Data

Operating Temperature

Storage Temperature

Location

Electrical

Power Supply

Interface to Monitor

Type

Measurement Characteristics

Accuracy

Measurement Principle

Wavelength/Frequency

Pressure Rating (Depth)

Flow Rate

Sensor Selection

Nominal Range (mg/l)

0 – 200

0 – 1,500

0 – 10,000

0 – 30,000

Mounting

Installation Type

Handrail Attachment

IR100

100

0.35 kg (inc 10 metres of cable)

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

-10 to 60°C

-20 to 80°C

Indoor/Outdoor

12VDC from 715/8100/8200/ASLD2200 Monitor

PWM Digital Signal

+/- 10 mm

Accuracy 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

Application

WTW Clarifier

WTW Clarifier, STW Final Settlement

WTW Thickener, STW Primary Tank

STW Thickener

Handrail mounted supported by cable.

Part Number 171290



Thank you for reading this data sheet.

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



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

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