



# Sludge Blanket Sensors

## Infrared (IR) 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

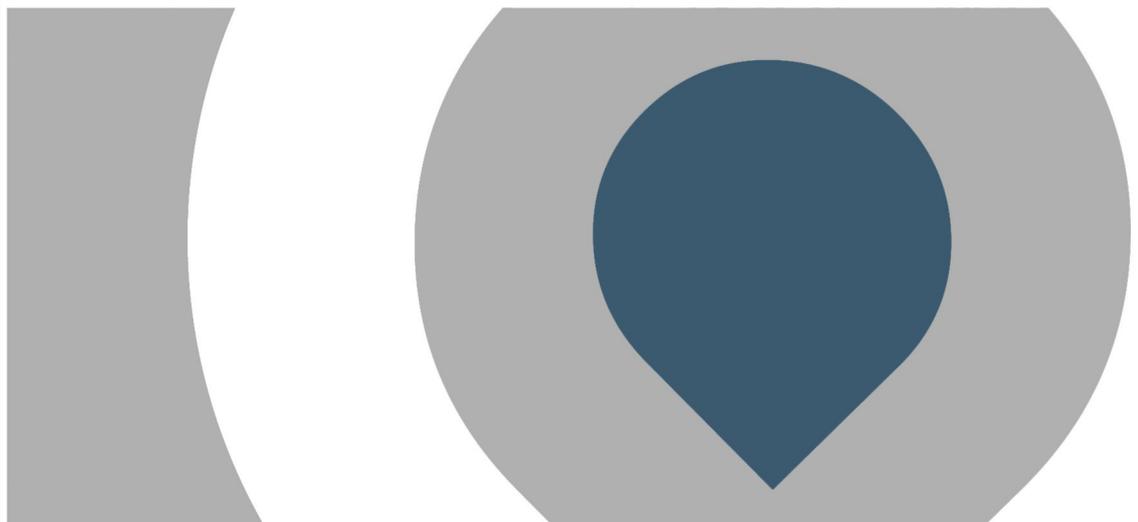
### COMPATIBLE MONITORS

715 Portable  
8100 Monitor  
8200 Monitor  
ASLD2200 Monitor



Partech offer a selection of sensors 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 low density sludges (such as Final/Secondary Settlement) 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.



Call us on +44 (0) 1726 879800 [www.partech.co.uk](http://www.partech.co.uk) **partech**

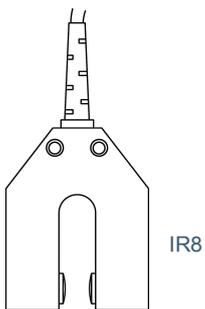
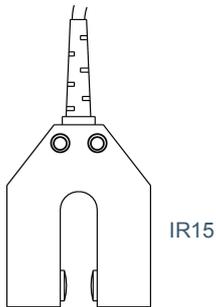
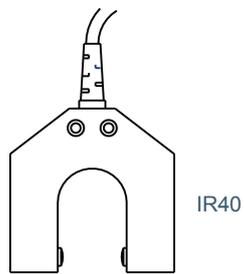
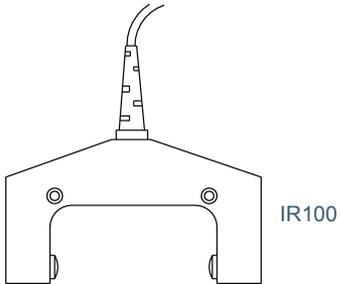
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### Physical

Dimensions (Gap size mm)  
 Width (mm)  
 Height (mm)  
 Depth (mm)  
 Set Point  
 (Sample Dependant)  
 Weight (inc 10 metres of cable)  
 Protection Class  
 Enclosure Material  
 Cable Entries  
 Cable Type  
 Cable Length  
 Service Requirement

### Environmental Data

Operating Temperature  
 Storage Temperature  
 Location

### Electrical

Power Supply

### Interface to Monitor

Type

### Measurement

Accuracy  
 can  
 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	IR40	IR15	IR8
100	40	15	8
160	100	75	75
95	95	95	95
25	25	25	25
200mg/l	1,500mg/l	10,000mg/l	30,000mg/l

0.35 kg  
 IP68  
 Moulded Epoxy Resin, Hastelloy C Black Acetal Co-Polymer  
 Integral Cable Gland  
 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 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

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

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