ASLD 2200

Analogue Output Automatic Sludge Blanket Level Monitor

PRODUCT DATASHEET

APPLICATIONS

Final Settlement Tanks
Primary Settlement Tanks
WRc Thickeners
Clarifiers

FEATURES

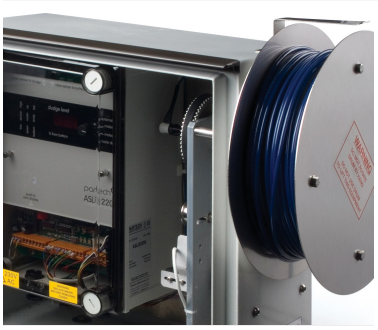
Simple to Use
Very Low Cost of Ownership
Automatic Bridge Clearance Control
Sensor Tracks the Sludge Interface
Tolerant of Poorly Formed Blanket

BENEFITS

Early Warning of Blanket Failure
Automatic De-sludging
Not Confused by Blanket Breakdown

COMPATIBLE SENSORS

Soli-Tech 20v2 Sensor
Infrared Sensor



The ASLD 2200 is a fully automatic sludge blanket level detector primarily designed for the water and waste water industry but could be applied to other types of process. It utilises a servo-driven sensor which continually tracks the settled interface and produces a 4-20 mA output which is proportional to the depth of the blanket.

The ASLD is supplied with either a Infrared or Soli-Tech 20v2 sensor. The use of infrared attenuation as the principle of operation for the sensor allows Partech to ensure sufficient sensitivity to monitor sludge blankets in a wide variety of applications. It should be noted that sensor selection can be site dependent, Partech are happy to provide full support in the selection of the correct sensor.

The sensor will normally be in the area of the tank just above the sludge and will therefore be kept away from the worst of the fouling that can occur in the treatment of either potable or dirty water.

Provision must be made for transmission of the output signal to the control system; this is normally possible via spare slip rings. Where this is not possible a radio telemetry option is available, allowing transmission directly to the control system without the need for installation of cables.

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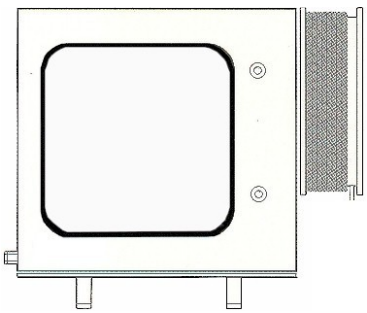

Physical	
Dimensions	490 x 350 x 382 mm (HxWxD)
Weight	15 kg
Protection Class	IP55 Outer Enclosure with IP65 Electronics Housing
Enclosure Material	GRP Outer with Polycarbonate Inner
Cable Entries	3 x PG11 (cable 5 to 10 mm)
Cable Size	Max Conductor Cross Section 2.5 mm^2
Environmental Data	
Operating Temperature	0 to 50°C
Storage Temperature	-20 to 70°C
Location	Indoor or Outdoor
Electrical	
Power Supply	115/230 VAC +10/-15% Field Selectable
Power Consumption	25VA
Outputs and User Interface	
Analogue Output	4-20 mA, maximum load resistance 500 ohm
Relay Output	1, this alarms at 0 and 100% only and is not adjustable
Contacts	Contact Closure
Rating	0.5A @ 100 VDC
Local Annunciation	6 LED's on Main CCA
Display	3 Digit, 7 Segment LED Display of 0-100%
Setup	Potentiometer and Push Buttons on main CCA
Measurement Details	
Accuracy	Typically +/-5%
Resolution	+/- 100 mm
Response Time	5 second delay, tracks blanket at 1 metre per minute
Depth Range	0-1.5 to 0-20 metres
	Accuracy and resolution statements are dependent on the settling characteristics of the solids and can vary during operation of the plant.
Sensor Selection	
Settlement Tank	IR100 Sensor – Special Applications Only ST20 0-1500 or IR40 – WTW Clarifier, STW Final Settlement ST20 0-10000 or IR15 Sensor – WTW Thickener, STW Primary Settlement ST20 0-30000 or IR8 Sensor – STW Thickener
Mounting	
Type	Requires bracket to mount on Handrail
Bracket/Plate	Part Number 101170 for attachment to handrail

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