



ASLD2200 Sludge Blanket Monitor

THE ASLD2200 IS A FULLY AUTOMATED SLUDGE BLANKET LEVEL DETECTOR DESIGNED FOR DRINKING WATER AND WASTEWATER APPLICATIONS. IT USES A MOTORIZED SENSOR TO CONTINUOUSLY TRACK THE SETTLED INTERFACE BETWEEN SLUDGE AND WATER BY KEEPING THE SENSOR AT THE TOP OF THE INTERFACE ZONE.

RELIABLE MEASUREMENT

- The ASLD2200 moves the sensor to a point just above the interface, then lowers the sensor below the interface to confirm the position of the sludge blanket.
- The instrument uses infrared sensors ideally suited for monitoring the sludge/water interface, even when the settlement process is not working effectively and the sludge blanket becomes indistinct.

LOW COST OF OWNERSHIP

- The position of the sensor just above the sludge reduces fouling and cleaning frequency.
- The monitor enables continuous monitoring of settlement tanks, eliminating issues related to changes in conditions between site visits.

TOTAL FIELD SUPPORT

- Our team of experts provides outstanding customer service and technical support.



Applications:

- FINAL SETTLEMENT TANKS
- PRIMARY SETTLEMENT TANKS
- WRC THICKENERS
- CLARIFIERS

GENERAL		ASLD2200 Sludge Blanket Monitor	
DIMENSIONS	350 mm (13.8") x 490 mm (19.3") x 300 mm (11.8") (H x W x D)	ACCURACY	±100 mm Accuracy will depend on the setting characteristics of the solids can vary during operation of the plant
WEIGHT	15 kg (33 lbs)	RESOLUTION	0.01 mg/l
PROTECTION CLASS	IP55 Outer Enclosure with IP65 electronics housing	REPEATABILITY	±1% of reading
ENCLOSURE MATERIAL	GRP Outer Enclosure with Polycarbonate inner	MEASUREMENT PRINCIPLE	Light Attenuation
CABLE ENTRIES	3x M20	WAVELENGTH / FREQUENCY	960 nm Infrared
CABLE LENGTH	10 metres (32 ft) standard	RESPONSE TIME	0.5 seconds - damping provided by monitor
POWER SUPPLY	85 to 264VAC 50/60 Hz Rating 25 VA	INSTALLATION TYPE	Handrail

STANDARD SENSORS	DIMENSIONS	WEIGHT	OPTICAL PATH	RANGE	CABLE LENGTH	SERVICE REQUIREMENT
IR8 Sensor	95 (3.7") x 8 (0.3") x 25 (0.9") mm	0.7 kg (1.54 lbs) inc 10m of cable	8mm	0 - 30,000 mg/l	10 metres (32.8 ft) standard	Cleaning Required Frequency application dependent
IR15 Sensor	95 (3.7") x 15 (0.6") x 25 (0.9") mm	0.7 kg (1.54 lbs) inc 10m of cable	15mm	0 - 10,000 mg/l	10 metres (32.8 ft) standard	Cleaning Required Frequency application dependent
IR40 Sensor	95 (3.7") x 40 (1.6") x 25 (0.9") mm	0.7 kg (1.54 lbs) inc 10m of cable	40mm	0 - 1,500 mg/l	10 metres (32.8 ft) standard	Cleaning Required Frequency application dependent
IR100 Sensor	95 (3.7") x 100 (3.9") x 25 (0.9") mm	0.7 kg (1.54 lbs) inc 10m of cable	100mm	0 - 200 mg/l	10 metres (32.8 ft) standard	Cleaning Required Frequency application dependent

SENSOR	TYPICAL APPLICATIONS
IR100 - Range 0 to 200mg/l The sensor should be used only if the sludge is very light with very clear supernatant.	Water Treatment
IR40 - Range 0 to 1,500mg/l This is the most commonly used sensor and is suitable for use on final settlement tanks in sewage treatment applications and clarifiers in water treatment works.	Water Treatment Clarifiers Sewage Treatment Final Settlement Humus Tanks
IR15 - Range 0 to 10,000mg/l This sensor is also regularly used for sludge blanket detection and is normally used for primary settlement in sewage treatment and sludge thickeners in water treatment.	Water Treatment Sludge Thickeners Sewage Treatment Primary Tanks
IR8 - Range 0 to 30,000mg/l This sensor should be applied on sludge thickeners in sewage treatment plants.	Sewage Treatment Thickeners

Note: Sensor ranges and detection points are approximate and depend on the site-specific nature of the treatment process.