



## SludgeWatch 8200w<sup>2</sup> Monitor

**THE SLUDGEWATCH 8200w<sup>2</sup> MONITOR PROVIDES A RELIABLE METHOD OF DETECTING THE SLUDGE BLANKET LEVEL IN CLARIFIERS AND SETTLEMENT TANKS.**

### KEY BENEFITS

- Eliminates guesswork and automatically provides a quick and easy check on the sludge/water interface position.
- Facilitates the de-sludging process rather than relying on a timer, eliminating unnecessary pumping costs and producing a better-quality sludge for de-watering.
- Mounts outdoors on the settlement tank bridge. IP65-rated enclosure doesn't require additional protection.
- Easy transmission to a control system, with simple radio integration if needed.

### INFRARED SENSOR OPTIONS

- **IR100: 0-200mg/l** - This sensor is used when sludge is very "light" with very clear supernatant.
- **IR40: 0-1,500mg/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.
- **IR15: 0-10,000 mg/l** - This sensor is also regularly used for sludge blanket detection and typically used for primary settlement in sewage treatment and sludge thickeners in water treatment.
- **IR8: 0-30,000 mg/l** - This sensor should be applied on sludge thickeners in sewage treatment plants.



[in-situ.com](http://in-situ.com)

### Applications:

- FINAL SETTLEMENT TANKS
- PRIMARY SETTLEMENT TANKS
- WATER TREATMENT - CLARIFIERS
- THICKENERS
- LAMELLA SEPARATORS

GENERAL		SludgeWatch 8200w <sup>2</sup> Monitor				
DIMENSIONS	185 mm (7.2") x 213 mm (8.3") x 95 mm (3.7") (H x W x D)		POWER RATING		0.8A	
WEIGHT	1.4 kg (3.08 lbs)		TERMINAL CORE SIZE		Max Conductor Cross Section 2.5mm²	
ENCLOSURE MATERIAL	Polycarbonate		RELAYS		3 x SPCO	
ENCLOSURE RATING	IP65		RATING		5A at 250VAC and 5A at 30VDC	
CABLE ENTRIES	1 x M20, 4 x M16, 1 x USB Type A		KEYPAD		6 Key	
TEMPERATURE RATING	-20 to +70°C, 0 to 95% Humidity (non-condensing)		DISPLAY		Sunlight Readable Black on White Graphic LCD	
POWER SUPPLY	100 to 240 VAC 9 to 36 VDC		BACKLIGHT		On/Off/On after keypress with user adjustable contrast	
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	10 metres (32.8 ft) standard	No routine servicing
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	10 metres (32.8 ft) standard	No routine servicing
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	10 metres (32.8 ft) standard	No routine servicing
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	10 metres (32.8 ft) standard	No routine servicing
WARRANTY	2 years					
SENSOR			SETPOINT		TYPICAL APPLICATIONS	
IR100 - Range 0 to 200mg/l This sensor should be used only if the sludge is very 'light' with very clear supernatant.			5 to 95% of range		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.			5 to 95% of range		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.			5 to 95% of range		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.			5 to 95% of range		Sewage Treatment Thickeners	
Note: Sensor ranges and detection points are approximate and depend on the site-specific nature of the treatment process.						