



# SoliTechw<sup>2</sup> - IR Sensors

## Suspended Solids - Portable Use

PRODUCT DATASHEET

### APPLICATIONS

Suspended Solids Monitoring  
Mixed Liquor (MLSS)  
Aeration Basin  
Oxidation Ditch  
Returned Activated Sludge  
Surplus Activated Sludge  
Final Effluent Monitoring  
Sludge Blanket Level  
Environmental Application

### FEATURES

Robust Design  
Simple to use  
Low cost of Ownership  
High Sensitivity

### COMPATIBLE SENSORS

750w<sup>2</sup> Monitor



Partech's range of SoliTechw<sup>2</sup> IR infrared sensors can be used for the measurement of suspended solids, sludge density, and turbidity in a wide range of applications, which includes Mixed Liquor (MLSS), Total Suspended Solids (TSS) and Sludge Blanket Detection.

The sensor has been designed as a robust and accurate method of portable detection. The machined housing provides excellent resistance to impact, temperature & chemical attack and the only maintenance required is periodic cleaning of the optical surfaces.

The SoliTechw<sup>2</sup> IR sensors are connected to the 750w<sup>2</sup> Portable unit via a high quality IP68 connector. The sensors are interchangeable, allowing a customer to use the same 750w<sup>2</sup> portable unit at different locations with different sensors.

The SoliTechw<sup>2</sup> IR Sensors come in 4 different ranges to maximise accuracy over a diverse range of applications. The 750w<sup>2</sup> and SoliTechw<sup>2</sup> IR combination make this the most flexible Suspended Solids, Turbidity and Sludge Density portable product range available on the market.

## Contact Us

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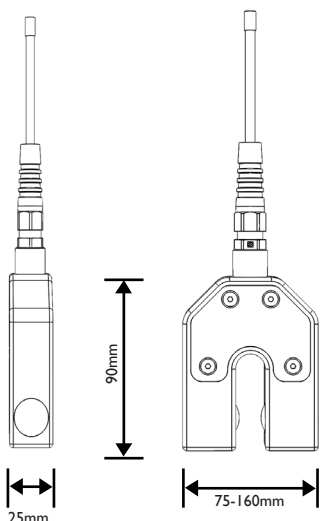




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### Physical

Weight	0.7kg inc 5m of cable		
Protection Class	IP68		
Enclosure Material	Black Acetal Co-Polymer		
Cable Connection	4 Way Lemo Circular Plug		
Cable Type	4 core. 2 twisted pair 5mm O/D Polyurethane Coated		
Service Requirement	No routine servicing		
Dimension (mm)	Height	Width	Depth
Range 0-200	95	160	25
Range 0-1,500	95	100	25
Range 0-10,000	95	75	25
Range 0-30,000	95	75	25
			Optical Path
			100
			40
			15
			8

### Environmental Data

Operating Temperature	0 to 60°C
Storage Temperature	-20 to 60°C
Pressure (Depth) Rating	1 Bar or 14.7 psi

### Measurements

Range*	Typical Application	Minimum Detection
0-30,000	Primary Settlement Tanks	500mg/l
0-10,000	Membrane Reactors	
	Activated Sludge Plants	150mg/l
	Mixed Liquor (MLSS)	
0-1,500	Returned Activated Sludge	
	Final Effluent	3mg/l
0-200	Environmental/River	
	Final Effluent	0.5mg/l
	Environmental/River	
Accuracy	+/-5% of reading or minimum detection limit whichever is greater	
Measurement Principal	Light Attenuation	
Wavelength	960nm	
Measured Units	mg/l, g/l %, NTU, FTU, FNU, FAU	

\*Suspended Solids Range is dependent on the sample being measured.

Turbidity range is the same as that stated for mg/l

For the purposes of this datasheet: INTU=IFTU=IFNU=IFAU

### Order Codes

Part No	Description
223893	SoliTechw <sup>2</sup> Sensor (Range 0-200, Cable Length 5m)
223895	SoliTechw <sup>2</sup> Sensor (Range 0-1,500, Cable Length 5m)
223897	SoliTechw <sup>2</sup> Sensor (Range 0-10,000, Cable Length 5m)
223899	SoliTechw <sup>2</sup> Sensor (Range 0-30,000, Cable Length 5m)

(10 metre cable also available)

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

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