



PORTABLE SOLIDS METER

InsiteIG 3150



Hand Held Portable Suspended solids sensor with rugged weatherproof carry case

Features:

- ❖ IR sensor technology
- ❖ Advanced microprocessor design
- ❖ Independent calibrations for High and low ranges
- ❖ Large Backlit LCD display
- ❖ Data logging
- ❖ Serial interface for data download
- ❖ Waterproof
- ❖ Rechargeable batteries
- ❖ Real time clock

Benefits:

- ❖ Reduces need for expensive lab analysis
- ❖ No frequent calibrations needed
- ❖ Minimal maintenance
- ❖ Very low cost of ownership
- ❖ May be used to detect sludge blanket depths

Applications:

- ❖ Activated sludge monitoring & control
- ❖ Final effluent monitoring
- ❖ Process monitoring
- ❖ River & lake monitoring



A portable unit in use in a wastewater facility

SoISys: 3150 is a portable hand held IR absorption Suspended Solids sensing system from InsiteIG, ideal for use in wastewater treatment works and environmental field monitoring. The technology is based on the principle of single gap light absorption. The sensor utilises an infrared emitter to minimize colour effects and compensates for emitter variations due to temperature by measuring source brightness.

The sensor is available with "standard" or "long" path lengths with ranges of 0-30,000mg/l or 0-1500 mg/l respectively, making it an ideal tool for sewage works operatives and environmental field officers alike. However the sensors are not interchangeable, being hardwired into the controller.

It may be supplied with an optional rugged carrying case for extra protection. Individual readings may be logged in the internal memory together with identifier and date/time stamp.

Calibration is only required approximately every 6 months. Most sites require no special calibration, however site specific calibration may be needed in some cases. Calibration is a simple 2 point process using distilled water as a zero and a real sample from the site.



System Specification

Operational Principle:	Based on an optical sensor utilising the measurement of IR absorbance
Range:	0-1500mg/l or 0-30,000 mg/l, 0-65 °C
Resolution:	1 mg/l (below 1000mg/l, 10mg/l (between 1000-9999mg/l), 100mg/l above 10.000mg/l
Repeatability:	+/- 0.5%
Accuracy:	3% of reading or 20 mg/l whichever is greater
Sensor Drift:	<1% per year

Transmitter/Controller Specification

Mechanical Construction:	Dimensions l x h x d	260x85 (120)x55(60) mm (approx) l x b x d
	Weight:	0.8 kg (approx)
	Materials:	ABS
	Ambient conditions:	-20 to 70 °C, 0-100% Humidity
	Weather Protection:	NEMA 4X
	CE:	Compliant
Outputs:	Data interface:	RS 232serial
	Display:	LCD graphic display with UV protection. Contrast adjustment via keypad. On demand backlighting
Power requirements:	Supply voltage:	240V battery charger Rechargeable Batteries: 1pack comprising 6 off 1.5V AA NiMH

Sensor assembly Specification

Mechanical Construction:	Materials:	Epoxy, PVC, Polyurethane
	Dimensions:	38mm dia(nominal)
	Weight:	1Kg including cable (approx)
	Cable length:	6.1m
Process conditions:	Medium Temp	0-65 °C
	Medium Pressure	100PSI max

Ordering Information

When ordering please request:

SoISys: 3150 Portable hand held suspended solids logger, including 6m cable, sensor, battery charger

If you would like to have the carrying case and PC download software please request:

1 off SCIM 2200 Carrying case &
1 off INDWNL1 PCdownload kit

Supplied by: Envitech Ltd. Unit S7, Capital Business Park, Parkway, Cardiff, CF3 2PU
Tel: 029 2036 4252, Fax 02920 369876, E-mail: sales@envitech.co.uk

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