



PORTABLE SOLIDS METER (IR ABSORPTION)

SolSys: 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

SolSys: 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 say every 6 months or if the unit is to be used on a different type of water. In this case a zero using distilled water is required followed by a span in the liquid to be measured.



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 Weight: Materials: Ambient conditions: Weather Protection: CE:	260x85 (120)x55(60) mm (approx) l x b x d 0.8 kg (approx) ABS -20 to 70 °C, 0-100% Humidity NEMA 4X Compliant
Outputs:	Data interface: Display:	RS 232 serial LCD graphic display with UV protection. Contrast adjustment via keypad. On demand backlighting
Power requirements:	Supply voltage:	240V battery charger Rechargeable Batteries: 1 pack comprising 9 off 1.5V AA NiMH

Sensor assembly Specification

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

Supplied by: Envitech Ltd. Unit S7, Capital Business Park, Parkway, Cardiff, CF3 2PU
Tel: 02920 364252, Fax 02920 369876, E-mail: sales@envitech.co.uk

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