



InsitelG 3150 - Suspended Solids Portable

The **3150 is** a portable hand held IR absorption Suspended Solids sensing system from InsitelG, 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.

Benefits:

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



A portable unit in use in a waste water facility



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
- Backlit LCD display
- Data logging
- Serial interface for data download
- Waterproof
- Rechargeable batteries
- Real time clock

Applications:

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



Innovation in Environmental & Process Technology

We **Understand** Water & Waster Monitoring

System Specification

Operation 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 20mg/l whichever is greater
Sensor Drift	<1% per year

Transmitter Specification

Construction	Dimensions (h x w x d)	260 x 85 (120) x 55 (60) mm (approx.)
	Weight	0.8 kg
	Materials	ABS
	Protection class	NEMA 4X
Software	Ambient conditions	-20 to 70 °C, 0-100% Humidity
Outputs	Data Interface	RS232 serial
	Display	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 of 1.5V AA NiMH

Optional

When ordering please request:

OptoDOSys I-3150 Portable hand-held optical DO 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

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