MODEL 3150

DATA SHEET

PORTABLE SUSPENDED SOLIDS

Optimized for MLSS & RAS—Data Logging—Download Data to Spreadsheet

The Insite Instrumentation Group Model 3150 portable suspended solids analyzer is a unique system that combines advanced electronics with a solid-state, optical sensor. It is a multi-range analyzer designed for the measurement of suspended solids in aqueous solutions. The microprocessor-based electronics of the analyzer provide a high degree of flexibility and ease of use. Data logging and the ability to download the data directly to a computer are standard features.



FEATURES

- Infrared Sensor technology
- Data logging
- Serial Interface to Computer Spreadsheet
- Independent Calibration for MLSS & RAS
- Large, Backlit Graphical Display
- Waterproof
- Rechargeable Batteries
- Real Time Clock

Benefits

- Eliminates Need for Daily Lab Analysis
- User Friendly
- Real Time SS Concentrations for Process Control
- Analyzer can also be used to Measure Sludge Blankets in Clarifiers

The sensor operates on the principle of single gap light absorption as the means of determining the concentration of suspended solids. The sensor was specifically designed for solids concentrations typically found in aeration basins (1,000 to 5,000 mg/l) and RAS streams (7,000 to 20,000 mg/l) of wastewater treatment plants. There are independent calibration points for each. The sensor utilizes an infrared emitter to minimize color effects and compensates for emitter variations due to temperature by measuring source brightness.

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MODEL 3150 SPECIFICATIONS

Measuring Ranges	**0 to 30,000 mg/l**
Accuracy	**3% of reading or 20 mg/l, whichever is greater**
Sensitivity / Resolution	**1 mg/l below 1000 mg/l**
	10 mg/l between 1,000 and 9,999 mg/l
	100 mg/l above 10,000 mg/l
Repeatability	**+/- 0.5%**
Sensor Drift	**Less than 1% per year**
Temperature Range	**0 to 65 degrees C**
Sensor Check	**Automatic self diagnostics**
Output	**RS-232 serial**
Memory Backup	**Yes**
Display	**LCD graphic display with UV protection**
	Contrast adjustment via keypad
	On demand backlighting
Sensor Cable Length	**20 feet**
Ambient Temperature	**minus 40 degrees C to 55 degrees C**
Ambient Humidity	**0 to 100 percent**
Enclosure Rating	**NEMA 4X**
Wetted Materials	**Epoxy and polyurethane**
Maximum Pressure	**100 psi**
Shipping Weight	**approximately 4 pounds**

ORDERING INFORMATION

The Model 3150 portable S.S. system includes analyzer, sensor, battery charger. Optional Download Kit—Includes Cable to connect 3150 to PC and automatic download software.

Delivery	**Ship within 2 weeks from date of order**
Terms	**Visa, MasterCard, or Net 30 days, FOB Slidell, LA**

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