

# **MODEL 3150-35L**

## **DATA SHEET**

### **PORTABLE SUSPENDED SOLIDS**

**Optimized for Sediment Runoff Monitoring—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**
  - **Large, Backlit Graphical Display**
  - **Weather-proof**
  - **Rechargeable Batteries**
  - **Real Time Clock**

#### **Benefits**

- **Reduces Need for Lab Analysis**
  - **User Friendly**
- **Real Time Sediment Concentrations for Process Control**

The sensor operates on the principle of single gap light absorption as the means of determining the concentration of suspended solids. The model 35L sensor was specifically designed for solids concentrations typically found in runoff slurries, streams, rivers, and ditches. There are two independent calibration points for so that you can calibrate to both the pre and post treated stream. 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 3150-35L SPEC'S

Measuring Ranges	0 to 1,500 mg/l for Model 35L Sensor
Accuracy	3% of reading or 2 mg/l, whichever is greater (Model 35L)
Sensitivity / Resolution	1 mg/l below 1000 mg/l 10 mg/l between 1,000 and 1,500 mg/l
Response Time	less than 10 seconds
Display unit	PPM, mg/L adjustable
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 3150-35L portable S.S. system includes analyzer, sensor, battery charger, soft carrying case, and Optional Download Kit—Includes Cable to connect 3150 to PC and automatic download software.

**Delivery Terms** Ship within 3 weeks from date of order  
Visa, MasterCard, or Net 30 days, FOB Slidell, LA

### CONTACT ;

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