



InsitelG Model 3150 Portable Suspended Solids Analyzer

Don't send samples to the lab! The 3150 provides instant suspended solids!

The InsitelG Model 3150 portable suspended solids analyzer is a state of the art, easy to use meter that provides many benefits to the plant operations staff.

It is a unique system that combines advanced electronics with a solid-state, optical sensor. It is 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 optional features.

- Real-time SS for better process control
- Eliminates the need for daily lab analysis
- Data logging with direct downloading to your PC
- Can also be used to measure sludge blankets in clarifiers

The Model 3150 analyzer uses the Model 15 sensor which operates on the principal 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 (1000 mg/L to 5000 mg/L) and RAS streams (7000 mg/L to 20,000 mg/L) of wastewater treatment plants. There are independent calibration points for each. Furthermore, a 15L low range sensor (0-1000 mg/L) is available. The Model 15L sensor was designed to measure very low solids concentrations typically found in secondary clarifier and plant effluents. The sensor utilizes an infrared emitter to minimize colour effects and compensates for emitter variations due to temperature by measuring source brightness.

Easy Calibration...

Any optically based device for measuring suspended solids should only be span calibrated against a typical sample of the actual process water being measured. To do a complete calibration, a zero and a span calibration should be performed.

Zero Calibration

The analyzer must first be zeroed in clean water such as potable or distilled water.

Span calibration

A sample/snapshot reading should be taken in a normal representative water sample. The Model 3150 utilises its microprocessor memory in a unique way to make a span

calibration as easy and accurate as possible. This span calibration is performed as a two step process. First, the SNAPSHOT function of the analyzer is used to store actual process conditions to the instrument's memory. Later, when standard laboratory analysis results are available for those previous conditions, the analyzer's SPAN function will recall the stored value and allow the user to adjust the span value accordingly.

As long as the lenses are kept clean, frequent calibration should not be necessary. Every six months or longer should be more than adequate for a complete calibration.

SPECIFICATIONS

Measuring range	0 to 30,000 mg/L (standard sensor) 0 to 1,000 mg/L (low range sensor)
Accuracy	Greater of +/-3% of reading or 20 mg/L (standard sensor) +/-3% of reading (low range sensor)
Sensitivity/Res	1 mg/L below 1000mg/L 10 mg/L between 1,000 and 9999 mg/L 100 mg/L above 10,000 mg/L
Repeatability	+/- 0.5%
Sensor drift	Less than 1% per year
Temp range	0 to 65 deg C
Sensor check	Automatic self diagnostics
Output	RS232 serial
Memory back up	Yes
Display	LCD graphic display with UV protection, contrast adjustment via keypad, on demand backlighting
Cable length	6m
Sensor diameter	48mm (standard sensor) 75mm (low range sensor)
Ambient Temp	-40 to 55 deg C
Ambient Humidity	0 to 100%
Enclosure rating	NEMA 4X
Wetted materials	Epoxy, polyurethane, PVC
Max pressure	100psi

ORDERING INFORMATION

IIG3150	Model 3150 Portable SS meter (specify standard/low range sensor)
IIG3150C	Model 3150 Portable SS meter with computer download kit (specify standard/low range sensor)
PP1500	Hard Plastic Pelican Carry Case



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