

# Portable Suspended Solids Indicator

The suspended solids Indicator (Model: IPM) 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 a multi-range indicator designed for the measurement of suspended solids in aqueous solutions. The microprocessor-based electronics of the indicator 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

The Indicator uses the 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. 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.



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## Specifications

Measuring range: 250 to 30,000 mg/L

Accuracy:  $\pm 5\%$  of reading or  $\pm 100$  mg/L, whichever is greater

Sensitivity/Resolution: 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  $\pm 0.5\%$

Sensor drift: Less than 1% per year

Temperature 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,

Sensor cable length: 20 feet

Ambient Temperature: -40 to 55 deg C

Ambient Humidity: 0 to 100%

## Features

Infrared Sensor Technology

Data logging

Serial Interface to Computer Spread sheet

Independent Calibration for MLSS & RAS

Large, Backlit Graphical Display

Water proof

Rechargeable Batteries

Real Time Clock



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## **Benefits**

Eliminates Need for Daily Lab Analysis

User Friendly

Data logging with direct downloading to your PC

Real Time SS Concentrations for Process Control

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