Portable Hand-Held Turbidity Meter

- Portable unit with completely submersible sensor
- Simple and convenient to use
- Marine grade cable with strain relief
- Rugged anodized aluminum sensor housing

Applications

Applications include; water quality testing and management, river monitoring, stream measurement, reservoir water quality testing, groundwater measuring, water and wastewater treatment, effluent, and industrial control.

For environmental monitoring, the sensor is placed directly into a river or lake, and positioned where the turbidity is to be monitored. For process monitoring, the sensor can be inserted into low pressure pipes, for on-line monitoring, by using a standard 1.5 compression coupler.

Description

The Turbidity Meter is a highly accurate device with a Fully submersible sensor for in-situ environmental or Process monitoring. The meter is provided with a padded carrying case and 10' of marine grade cable, with lengths up to 100' available upon request.

Method:

In accordance with USEPA Method 180.1 for turbidity measurement the sensor is a 90 degree scatter nephelometer where a focused beam is directed into the monitored water. The light beam reflects off particles in the water, and the resultant light intensity is measured by a photodetector positioned at 90 degrees to the light beam. The detected light intensity is directly proportional to the turbidity of the water. The sensor utilizes a second light detector to correct for light intensity variations, color changes, and minor lens fouling.

Calibration:

All turbidity meters are factory calibrated to the highest standards and should not need recalibration for 6-12 months. User calibration, when required, is very easy using the step-by-step scaling process within the display unit.

Specifications

Range: 0-50 NTU/ppm and 0-1000 NTU/ppm
Accuracy: +5 % of full scale
Resolution: 12 bit
Method: Nephelometer with correction
Power: Internal 9VDC battery
Warm-up Time: 3 seconds minimum
Operating Temperature: -40° to +50°C
Materials: Black anodized aluminum, stainless steel, delrin, Sapphire optical windows, Polyurethane jacketed cable.
Pressure: 0-50 psi
Light Source: pulsed LED
Cable Length: Meter=10' standard (optional to 100')
Sensor Size: Body= 1 1/2"D • 8.5"L Sensor Shield= 1 1/2" • 2" Overall Length: 9"
Weight: 2 lbs.

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