WATER

WQ710 Turbidity Sensor

- 4-20 mA output
- Simple and convenient to use
- Marine grade cable with strain relief
- Rugged anodized aluminum sensor housing Specifications
- Removable light and debris shield

Description

The Global Turbidity Sensor is a highly accurate submersible instrument for in-situ environmental or process monitoring. The sensor is mounted on 25' of marine grade cable, with lengths up to 500' available upon request. The sensor output is 4-20 mA with a three wire configuration.

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 WQ710 utilizes a second light detector to correct for light intensity variations, color changes, and minor lens fouling

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.

Specifications

Range: 0-50 NTU and 0-1000 NTU
Accuracy: ±5 % of full scale
Method: Nephelometer with correction
Power: 10-36 VDC
Current Draw: 31 mA plus sensor output
Warm-up Time: 10 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: 25' standard, (optional to 500')
Sensor Size: Body= 1 1/2"D x 8.5"L Sensor Shield= 1 1/2" x 2"
Overall Length: 9"
Weight: 2 lbs.

Price List

WQ710

Turbidity Sensor.....$982
25' cable standard, please specify cable length at time of order.

WQEXC Extra Cable

Cable length is measured from end of cable to bottom of sensor.
After 25', up to 500'.....$1.20/ft

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