WQ730 Turbidity Sensor

Rugged Submersible Turbidity Sensor

Description

Global Water's WQ730 Turbidity Sensor is a highly accurate submersible instrument for in situ environmental or process monitoring. The sensor is ideal for a variety of applications, including river monitoring, stream measurement, reservoir water quality testing, groundwater testing, water and wastewater treatment, effluent and industrial control, and more.

How it Works

In accordance with USEPA Method 180.1 for turbidity measurement, the WQ730 is a 90 degree scatter nephelometer. The sensor directs a focused beam into the subject 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 turbidity sensor uses a second light detector to correct for light intensity variations, color changes, and minor lens fouling.

For environmental monitoring, simply place the sensor directly in the water and position it where the turbidity is to be monitored. For process monitoring, you can place the sensor into a low-pressure pipe for online monitoring using a standard 1.5" compression coupler.

Record, Control, and Display

For handheld turbidity monitoring, the WQ770-B Turbidity Meter combines the WQ730 with a digital display that reads in either NTU or ppm. You can add recording capabilities to the WQ730 with the GL500 Datalogger, and you can use the sensor to control external devices with the PC300 Controller.

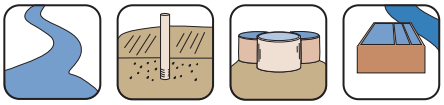
Specifications

Output	4-20 mA
Range	0 to 50 NTU and 0 to 1000 NTU
Accuracy	±1% full scale
Method	Nephelometer with correction
Operating Voltage	10 to 36 VDC @ 40 MS
Current Draw	30 mA plus sensor output
Warm-up Time	5 seconds minimum
Operating Temperature	-10° to +50°C
Materials	306 stainless steel, Delrin®, polyurethane jacketed cable
Maximum Pressure	Open Water: 0 to 30 psi Inline: 30 psi
Light Source	Infared LED
Cable Length	25'
Size of Probe	1 ½" dia. x 8.5" long (3.8 cm dia. x 21.6 cm long)
Weight	1 lb (454 g)

Features

- In situ turbidity measurement
- Simple and convenient to use
- 4-20 mA output
- Marine grade polyurethane jacketed cable with strain relief
- Rugged stainless steel and Delrin® housing
- Removable light and debris shield
- Ideal for a variety of applications

Applications



Ideal for river monitoring, stream measurement, reservoir water quality testing, groundwater testing, water and wastewater treatment, effluent and industrial control, and more.

Ordering & Options

Order No.	Description
WQ730	Turbidity Sensor for Open Water (includes 25' cable)
WQEXC	Extra Sensor Cable, per foot (up to 500')

Please call us for calibration standards.

Regional Distributor

Global Water
The Leader in Water Instrumentation

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