Global Water
a **xylem** brand

Turbidity Sensor

Global Water's WQ730 Turbidity Sensor is a highly accurate submersible instrument for in-situ environmental or process monitoring. Applications for the WQ730 include: water quality testing and management, river monitoring, stream measurement, reservoir water quality testing, groundwater testing, water and wastewater treatment, and effluent and industrial control.

In accordance with USEPA Method 180.1 for turbidity measurement, the WQ730 Turbidity Sensors are a 90 degree scatter nephelometer. The WQ730 turbidity sensor directs a focused beam into the monitored water. The light beam reflects off particles in the water, and the resultant light intensity is measured by the turbidity sensor's photodetector positioned at 90 degrees to the light beam. The light intensity detected by the turbidity sensor is directly proportional to the turbidity of the water. The WQ730 utilizes a second light detector to correct for light intensity variations, color changes, and minor lens fouling.

For environmental or process monitoring, simply place the turbidity sensor directly in the water and position it where the turbidity is to be monitored. Since the turbidity sensor uses light to detect the water's turbidity ensure that the minimum amount of external light possible is exposed to the monitoring site.

• 4-20 mA output
• Marine grade cable with strain relief
• In-situ turbidity measurement
• Simple and convenient to use
• Rugged stainless steel and Delrin sensor housing

The Global Water WQ770-B Turbidity Meter combines the WQ730 turbidity sensor (described above) with a handheld meter that has a six digit LED screen, 4-button control panel, and an internal 9V battery. The handheld portable WQ770-B turbidity meter can be used for enivronmental or process sites that do not require permanent monitoring. The WQ770-B will display readings directly in either nephelometric turbidity units (NTU) or parts per million (PPM). The WQ770-B turbidity meter also includes an automatic shutoff feature to conserve battery power.

WQ770-B Turbidity Meter with the WQ730 Turbidity Sensor.
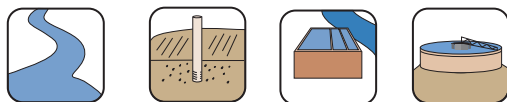
Ideal for river monitoring, stream measurement, reservoir water quality testing, groundwater testing, water and wastewater treatment, effluent and industrial control, and more.

Specifications

Sampler

Range	Sensor=0-50 NTU and 0-1000 NTU; Meter=0-50 NTU or 0-1000 NTU selectable
Accuracy	+/- 1% of full scale
Meter Resolution	12 bit
Output	4-20mA (Sensor, both ranges), LED screen (Meter)
Method	Nephelometer with correction
Operating Voltage	10-36 VDC @ 40 MS (Sensor); Internal 9VDC battery (Meter)
Current Draw	30 mA plus sensor output (Sensor)
Warm Up Time	5 seconds minimum (Sensor)
Operating Temperature	14 to 122°F (-10 to +50°C) (Sensor); 32 to 122°F (0 to +50°C) (Meter)
Materials	306 stainless steel, delrin, polyether jacketed cable
Maximum Pressure	30 psi
Light Source	Infrared LED, (880nm)
Cable Length	Sensor=25 ft standard (optional to 500 ft)
Size	Body= 1 1/2 x 8.5 inches (3.8 x 21.6 cm) (Dia x Length)
Weight	1lb (454 g) (Sensor); 2 lbs (907 g) (Meter+sensor)
For Ordering information and Options; please visit www.globalw.com/products/turbidity.html.	