

Wide Sensing Range Turbidity Sensor with Wiper

INFINITY-Turbi

ATU75W2-USB

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TBD



Overview

The INFINITY-Turbi is a logger type turbidity sensor equipped with two turbidity sensors: one for medium concentration measurements and one for high concentration measurements. This allows for accurate measurements across a wide range of turbidity levels, from normal conditions to high turbidity events.

The device also comes standard with water temperature and depth sensors, making it versatile for various measurement needs. Additionally, the optical sensor section is equipped with a wiper to remove contamination, enabling long-term continuous observations.

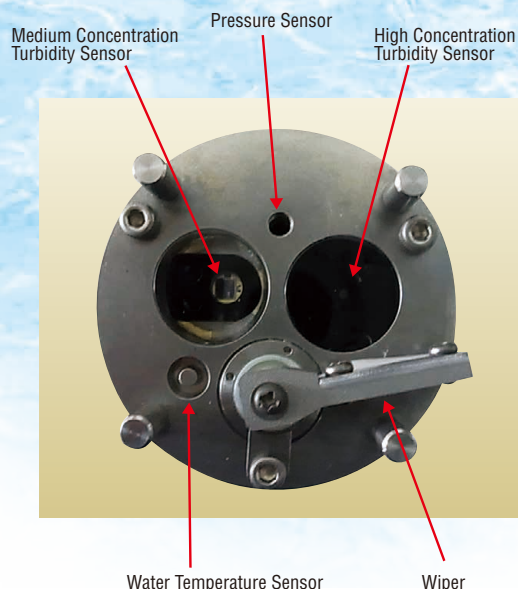
Sensor Specifications

Parameter	Medium Concentration Turbidity	High Concentration Turbidity	Pressure	Temperature
Sensor Type	Infrared Backscatter	Infrared Backscatter (Optical Fiber)	Semiconductor Pressure	Thermistor
Range	0 to 1,000 FTU (Formazin reference)	0 to 100,000 ppm (Kaolin reference)	0 to 25 m	-3 to 45°C
Resolution	0.03 FTU	2 ppm	0.001 m	0.001°C
Accuracy	±0.3 FTU or ±2%	±10 ppm or ±5%	Non-linearity ±0.14% FS, Repeatability ±0.2% FS	±0.02°C (3 to 31°C)

Logger Specifications

Memory Type	microSD card (waterproof high-speed type)
Memory Capacity	1GB
Mode	Continuous Mode / Burst Mode
Interval	0.1 to 600 sec
Burst	1 to 1,440 min
Number of Samples	1 to 18,000
Battery	CR-V3 Lithium Battery / 3.3 Ah (UP to 4) AA Alkaline Battery (Up to 8) - Requires AA adapter kit AA Lithium Battery (Up to 8) - Requires AA adapter kit
Communication Method	USB communication (compliant with Ver. 2.0, equivalent to Ver. 1.1)
Housing Material	Titanium Grade 2
Dimensions	φ70 mm × 280 mm
Weight	Approx. 1.4 kg in air / Approx. 0.7 kg in water
Pressure Resistance	Equivalent to 25 m depth*

*By changing the range of the pressure sensor, it can support depths up to 200 m.



Drawing

