

ATU75W-WF / WFX

Medium Concentration Turbidity Sensor

ATU75W-WF-L / WFX-L

Pressure Sensor

Temperature Sensor

# Wide Range Turbidity Logger with Wiper EPSA-Turbi ATU75W-WF / WFX, ATU75W-WF-L / WFX-L

High Concentration Turbidity Sensor

Wiper

#### Overview

The EPSA-Turbi is equipped with two turbidity sensors for medium and high concentration measurements, allowing for high-precision measurements across a wide range from normal to high turbidity conditions. It also comes standard with water temperature and depth sensors, making it versatile for various measurement needs. The optical sensor section is equipped with a wiper to remove dirt, enabling long-term continuous observation.

The EPSA-Turbi has improved cleaning capability by using dual wiper blades.

### Sensor Specifications

Parameter	Medium Concentration Turbidity	High Concentration Turbidity	Pressure	Temperature
Sensor Type	Near-Infrared Backscatter	Near-Infrared Backscatter (Optical Fiber)	Semiconductor Pressure	Thermistor
Range	0 to 1,000 FTU (Formazin reference)	0 to 100,000 ppm (Kaolin reference)	0 to 0.5 MPa	-3 to 45°C
Resolution	0.03 FTU	2 ppm	0.00001 MPa	0.001°C
Accuracy	±0.3 FTU or ±2%	±10 ppm or ±5%	Non-linearity ±0.05% FS, Repeatability ±0.1% FS	±0.02°C (3 to 31°C)

## Logger Specifications

Model <sup>*1</sup>	ATU75W-WF / WFX	ATU75W-WF-L / WFX-L	
Memory Type	Built-in Flash Memory		
Memory Capacity	1GB / Approx. 15 million data		
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	AA Alkaline Battery / AA Lithium Battery		
Number of Batteries	6 (Standard type)	12 (Long type)	
Communication Method	Wirelss LAN Communication (Compliant with IEEE802. 11n) <sup>-2</sup> , USB Communication (Compliant with Ver. 2.0, Equivalent to Ver. Connector: USB Type-C		
Housing Material	Titanium Grade 2		
Dimensions	<b>Ø</b> 70 mm × 240 mm	<b>¢</b> 70 mm × 302mm	
Weight	Approx. 1.4 kg in air, 0.8 kg in water	Approx. 1.8 kg in air, 1.0 kg in water	
Pressure Resistance	Equivalent to 50 m depth		

1 ATU75W-WF and ATU75W-WF-L are models having wireless LAN communication.

ATU75W-WFX and ATU75W-WFX-L are models not having wireless LAN communication.

\*2 As of January 2025, wireless communication is available in the United States and Canada.



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