

Wide Range Turbidity Logger with Wiper

EPSA-Turbi

ATU75W-WF / WFX, ATU75W-WF-L / WFX-L

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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 ¹	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	Wireless LAN Communication (Compliant with IEEE802. 11n) ² , USB Communication (Compliant with Ver. 2.0, Equivalent to Ver. 1.1), Connector: USB Type-C	
Housing Material	Titanium Grade 2	
Dimensions	φ70 mm × 240 mm	φ70 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	

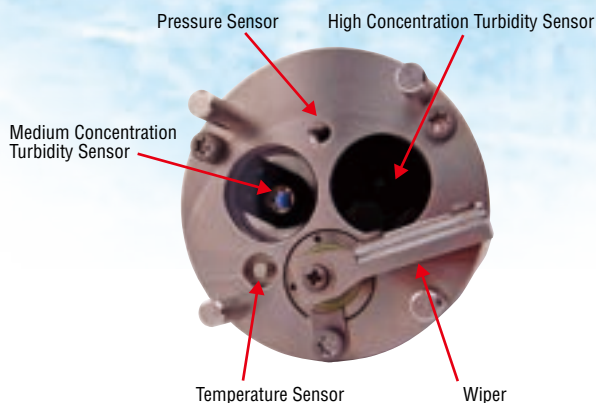
*1 ATU75W-WF and ATU75W-WF-L are models having wireless LAN communication.

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.

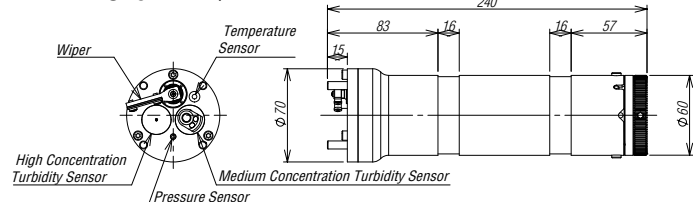
ATU75W-WF / WFX

ATU75W-WF-L / WFX-L



Drawing

ATU75W-WF / WFX



ATU75W-WF-L / WFX-L

