









Overview

The EPSA-CLW is a chlorophyll and turbidity sensor designed for long-term continuous measurements, equipped with a wiper to clean the optical sensor surface from dirt, including biological fouling. The light sources for the chlorophyll and turbidity sensors use highly stable LEDs, resulting in minimal changes over time.

The turbidity sensor, in particular, offers excellent stability in low concentration ranges and high correlation with suspended solids (SS) in high concentration ranges, making it suitable for measurements not only in marine areas but also in dams and rivers. The EPSA-CLW has improved cleaning capability by using dual wiper blades.

## Sensor Specifications

	Parameter	Chlorophyll	Turbidity	Temperature
į	Sensor Type	Fluorescence Measurement	Near-Infrared Backscatter	Thermistor
	Range	0 to 400 ppb (Uranine reference)	0 to 1,000 FTU (Formazin reference)	-3 to 45°C
	Resolution	0.01 ppb	0.03 FTU	0.001°C
ALC: N	Accuracy	Non-linearity ±1% FS (0 to 200 ppb)	±0.3 FTU or ±2%	±0.02°C (3 to 31°C)

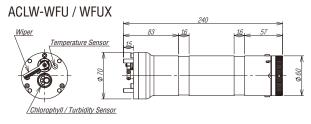
# Logger Specifications

	ACLW-WFU / WFUX	ACLW-WFU-L / WFUX-L	
Memory Type B			
2 21	Built-in Flash Memory		
Memory Capacity 1	1GB / Approx. 15 million data		
Mode 0	Continuous Mode / Burst Mode		
Interval 0	0.1 to 600 sec		
Burst 1	1 to 1,440 min		
Number of Samples 1	1 to 18,000		
Battery A	AA Alkaline Battery / AA Lithium Battery		
Number of Batteries 6	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. 1.1), Connector: USB Type-C		
Housing Material T	Titanium Grade 2		
Dimensions q	<b>⊅</b> 70 mm × 240 mm	<b>φ</b> 70 mm × 302 mm	
Weldut	Approx. 1.4 kg in air, D.8 kg in water	Approx. 1.8 kg in air, 1.0 kg in water	
Pressure Resistance E	Equivalent to 200 m depth		

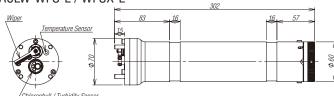
<sup>\*1</sup> ACLW-WFU and ACLW-WFU-L are models having wireless LAN communication. ACLW-WFUX and ACLW-WFUX-L are models not having wireless LAN communication.

### Drawing

Temperature Sensor



## ACLW-WFU-L / WFUX-L



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