



EPSA-CLW

Chlorophyll and Turbidity Logger with Wiper



ACLW-WFX



ACLW-WFX-L

JFE Advantech Co., Ltd.

EPSA-CLW

Model: ACLW-WFX / ACLW-WFX-L

■ Description

EPSA-CLW is an autonomously deployable data logger for long-term chlorophyll and turbidity measurements. The light sources (LEDs) of chlorophyll and turbidity sensors are highly stable, minimizing the change over time. The instrument has a mechanical wiper that periodically sweeps the optical window to prevent biological growth on it. The turbidity sensor has a good correlation with SS (Suspended Solid) over the range. EPSA-CLW provides highly accurate and long-term stable chlorophyll and turbidity data in oceans, rivers and freshwater.

■ Sensor specifications

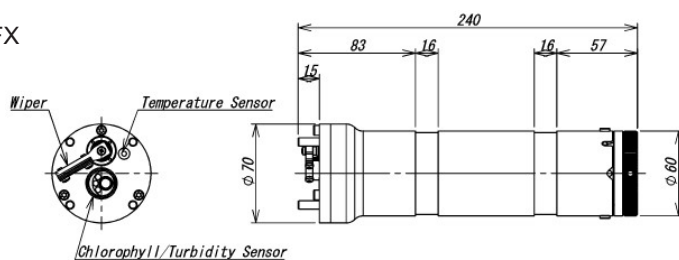
Parameter	Chlorophyll	Turbidity	Temperature
Principle	Fluorescent measurement	IR Backscattering	Thermistor
Range	0 to 400 ppb (Uranine reference)	0 to 1,000 FTU (Formazin reference)	-3 to 45 °C
Resolution	0.01 ppb	0.03 FTU	0.001 °C
Accuracy	Non-linearity ±1 % FS (0 to 200 ppb)	±0.3 FTU or ±2 %	±0.02 °C (3 to 31 °C)

■ Instrument specifications

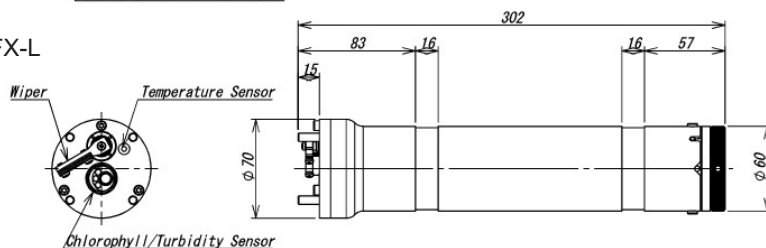
Model	ACLW-WFX	ACLW-WFX-L
Memory medium	1 GB built-in Flash memory	
Maximum data recordable	Approx. 15 million readings	
Measuring mode	Continuous, Burst	
Measuring interval	0.1 to 1 sec. (0.1 sec. increment) / 1 to 600 sec. (1 sec. increment)	
Burst sampling interval	1 to 1,440 min. (1 min. increment)	
Number of samples	1 to 18,000	
Power source	1.5 V AA alkaline battery / 1.5 V or 3.6 V (SAFT) AA lithium battery	
Number of batteries	Max. 6	Max. 12
Communication	USB 2.0 (ver. 1.1 compatible) / Connector: USB-C	
Housing material	Titanium (grade 2)	
Dimensions	Φ70 mm x 240 mm	Φ70 mm x 302 mm
Weight	Approx. 1.4 kg in air, 0.8 kg in water	Approx. 1.8 kg in air, 1.0 kg in water
Depth rating	200 m equivalent	

■ Drawing

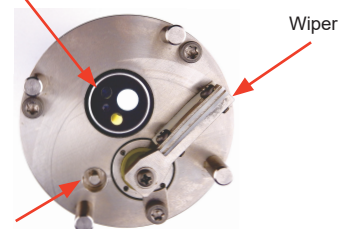
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Chlorophyll/Turbidity sensor



Temperature sensor

Bio-foul inside the cell is removed by the wiper



※ Dimensions are in mm. ※ All specifications on this leaflet are subject to change without notice.



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