

Chlorophyll and turbidity sensor with wiper

INFINITY-CLW

ACLW2-USB/
CAR/CAD

ISO9001



JQA0950

For long-term deployment



- Suitable for coastal environmental monitoring
- Less influence from particle color and CDOM
- Wiper to prevent bio-fouling



JFE Advantech Co., Ltd.

INFINITY-CLW ACLW2-USB/CAR/CAD

■ Description

INFINITY-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 to inhibit biological growth on the optical window. The turbidity sensor has a good correlation with SS (Suspended Solid) over the range. INFINITY-CLW provides Highly accurate and long-term stable chlorophyll and turbidity data in oceans, rivers and freshwater.

Two versions of the INFINITY-CLW are available. ACLW2-USB, the autonomous deployable data logger version that comes with internal battery and memory (miniSD card), and the other, ACLW2-CAR/CAD, the digital output version (CAR: RS-232C, CAD: RS-485).

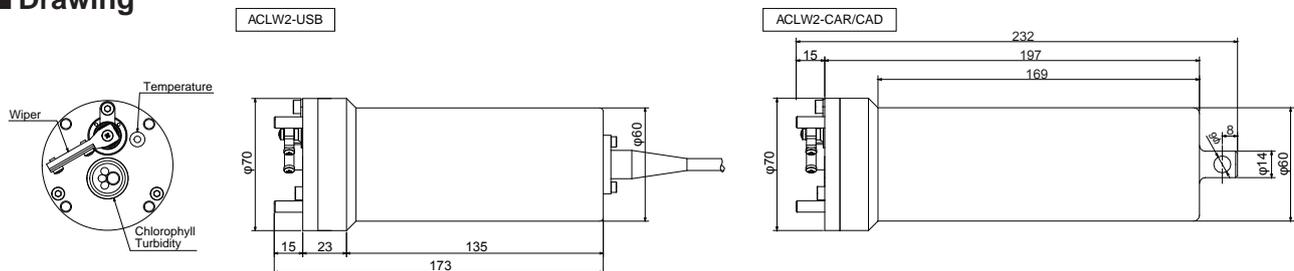
■ Sensor specifications

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

■ Instrument specifications

	Data logger version	Digital output version
Model designation	ACLW2-USB	ACLW2-CAR/CAD
Memory medium	miniSD card	-
Data capacity	1GB provided as standard (miniSD card)	-
AD converter	16 bit digital conversion	-
Measuring mode	Continuous mode, Burst mode	-
Measuring interval	0.1 to 1.0 s (0.1 s increment), 1 to 600 s (1 s increment)	-
Burst sampling interval	1 to 1,440 min (1 min increment)	-
No. of samples	1 to 18,000	-
Battery	CR-V3 lithium / 3.3Ah (four maximum)	-
Communication	USB 2.0 (ver. 1.1 compatible)	CAR: RS-232C, CAD: RS-485
Current consumption	90mA	30mA
Housing material	Titanium (grade 2)	Titanium (grade 2)
Dimensions	Φ70mm×232mm	Φ70mm×173mm
Weight	Approx. 1.3kg in air, 0.6kg in water	Approx. 1.0kg in air, 0.5kg in water
Depth rating	200m depth equivalent	200m depth equivalent

■ Drawing



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

 **JFE Advantech Co., Ltd.**

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