

# Logger Version Optical DO Sensor with Wiper

# RINKO W

## AROW2-USB

DO

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### Overview

Rinko W is an autonomously deployable data logger for long-term DO measurements. In order to protect the sensing foil against accumulating bio-fouling, the instrument has a mechanical wiper to sweep the optical window. The optical sensor does not need membrane replacement or stirring, thus, it requires less maintenance than galvanic sensors.

### Sensor Specifications

Model	AROW2-USB	
Parameter	DO	Temperature
Sensor Type	Optical	Thermistor
Range	0 to 200%	-3 to 45°C
Resolution	0.01%*	0.001°C
Accuracy	Non-linearity ±2% FS	±0.02°C (3 to 31°C)

\*Standard value near 100% saturation

### Logger Specifications

Memory Type	microSD card (waterproof high-speed type)
Memory Capacity	1GB
Mode	Continuous Mode / Burst Mode
Interval	0.5 to 600 sec
Burst	1 to 1,440 min
Number of Samples	1 to 18,000
Battery	CR-V3 Lithium Battery / 3.3 Ah (Up to 4) AA Alkaline Battery (Up to 8) - Requires AA adapter kit AA Lithium Battery (Up to 8) - Requires AA adapter kit
Communication Method	USB communication (compliant with Ver. 2.0, equivalent to Ver. 1.1)
Housing Material	Titanium Grade 2
Dimensions	φ70 mm × 232 mm
Weight	Approx. 1.2 kg in air / Approx. 0.6 kg in water
Pressure Resistance	Equivalent to 200 m depth

### Drawing

