

Optical Dissolved Oxygen Logger with Wiper EPSA-RI.NK

AROW-WFU / WFUX, AROW-WFU-L / WFUX-L

Overview

The EPSA-RINKO is a logger type DO sensor with a wiper designed for long-term continuous observation, equipped to clean dirt, including biological fouling, from the optical DO sensor. It employs a long-term stable oxygen detection membrane, resulting in minimal changes over time and eliminating the need for frequent replacement of the electrolyte or membrane, as required by galvanic electrode-type DO sensors.

The EPSA-RINKO has improved cleaning capability by using dual wiper blades.

Sensor Specifications

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

Model ⁻¹	AROW-WFU / WFUX	AROW-WFU-L / WFUX-L	
Memory Type	Built-in Flash Memory		
Memory Capacity	1GB / Approx. 15 million data		
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	AA Alkaline Battery / AA Llithium Battery		
Number of Batteries	6 (Standard type)	12 (Long type)	
Communication Method	Wirelss 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	ø 70 mm × 240 mm	¢ 70 mm × 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	
Pressure Resistance	Equivalent to 200 m depth		

*1 AROW-WFU and AROW-WFU-L are models having wireless LAN communication. AROW-WFUX and AROW-WFUX-L are models not having wireless LAN communication.

*2 As of January 2025, wireless communication is available in the United States and Canada.



E-mail: ocean-overseas@jfe-advantech.co.jp

AROW-WFU-L / WFUX-L Temperature Sensor



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DO

AROW-WFU / WFUX