

Affordable CTD for Coastal Ocean egaru CTD ACTDf-BT / ACTDf5-BT





Overview

Leveraging our extensive experience in CTD technology, we have developed an affordable CTD with general-purpose accuracy. The device has been miniaturized to the size of a 500 ml PET bottle, eliminating the need for cumbersome observation settings. Observation data can be transferred with a single touch to a smartphone or tablet paired via Bluetooth, allowing you to view vertical and time-series graphs on the spot.

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Features

- 1. Easy power ON-OFF operation with a magnet.
- 2. Data transfer to Android devices*, such as smartphones and tablets via Bluetooth.
- 3. Contactless charging.
- 4. The unique sensor head design allows unrestricted descent direction.
- 5. Simple operation enables observation even during fishing activities.
- 6. Robust structure that can be attached to fishing gear.
- * Compatible with Android™ OS versions 9.0 to 12. Android is a trademark of Google LLC.

Sensor Specifications

Model	ACTDf-BT	ACTDf5-BT	Common to ACTDf-BT/ACTDf5-BT		
Parameter	Depth		Temperature	Electrical Conductivity	Salinity
Sensor Type	Semiconductor Pressure		Thermistor	5-Electrode	Practical Salinity
Range	0 to 2 MPa (equivalent to 0 to 200 m)	0 to 5 MPa (equivalent to 0 to 500 m)	-3 to 45°C	0.5 to 70 mS cm ⁻¹	2 to 42
Accuracy	$\pm 1\%$ FS (equivalent to ± 2 m)	±1% FS (equivalent to ±5 m)	±0.2°C (3 to 31°C)*1	±0.2 mS cm ⁻¹ (20 to 50 mS cm ⁻¹) ^{*1}	_
Response Time (63% response standard value)	0.1 sec	0.1 sec	0.2 sec	0.2 sec	-
*1 Calibration range					

Logger Specifications

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Case Material	Titanium Grade 2		
Mode	Time Trigger		
Interval	0.1 sec (fixed)		
Memory Type	Internal Memory		
Recording Capacity	Up to 12 hours per block, up to 12 blocks (overwrites oldest data)		
Power Supply	Built-in rechargeable lithium-ion battery		
Charging Method	Contactless charging (charging time within 5 hours when new)		
Observation Time	Approx. 12 hours continuous (when battery is new)		
Communication Method	Bluetooth		
Dimensions	Approx. ϕ 70 × 170 mm (including handle: 116 mm)		
Weight	Approx. 870 g in air / Approx. 310 g in water		
Pressure Resistance	Equivalent to 300 m depth (ACTDf-BT), Equivalent to 600 m depth (ACTDf5-BT)		
*Since Bluetooth is included, please contact us before purchasing to ensure compliance with local radio regulations			



Observation Image



*Depth zero adjustment is performed when the power is turned ON. Observation starts afterward, but if the depth does not reach 2m within 30 seconds, the logger automatically enters sleep mode.

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