Logger Version Conductivity and Temperature Sensor INFINITY-CT A7CT-USB







Overview

INFINITY-CT is an accurate conductivity and temperature meter that makes use of a 7-electrode sensor. This 7-electrode sensor generates an electric current only inside the conductivity cell, minimizing external influences and improving data quality. Thus, precise salinity measurements are possible under biofouling conditions. The compact design is suitable for deployment/integration with various sites/platforms.

Sensor Specifications

Parameter	Temperature	Conductivity
Sensor Type	Thermistor	7-Electrode Type
Range	-3 to 45°C	0.5 to 70 mS cm ⁻¹ *
Resolution	0.001°C	0.001 mS cm ⁻¹
Accuracy	±0.01°C (0 to 35°C)	±0.01 mS cm ⁻¹ *

*Calibration is performed using seawater (in the range of 28 to 65 mS cm⁻¹). For use in freshwater, please contact us.

Logger Specifications

Memory Type	microSD card (waterproof high-speed type)	
Memory Capacity	1GB	
Mode	Continuous Mode / Burst Mode	
Interval	0.1 to 600 sec	
Burst	1 to 1,440 min	
Number of Samples	1 to 18,000	
	CR-V3 Lithium Battery / 3.3 Ah (Up to 2)	
Battery	AA Alkaline Battery (Up to 4) - Requires AA adapter kit	
	AA Lithium Battery (Up to 4) - Requires AA adapter kit	
Communication Method	USB communication (compliant with Ver. 2.0, equivalent to Ver. 1.1)	
Housing Material	Titanium Grade 2	
Dimensions	ϕ 54 mm × 255 mm (including sensor guard)	
Weight	Approx. 0.7 kg in air / Approx. 0.3 kg in water	
Pressure Resistance	Equivalent to 2,000 m depth	

Drawing

