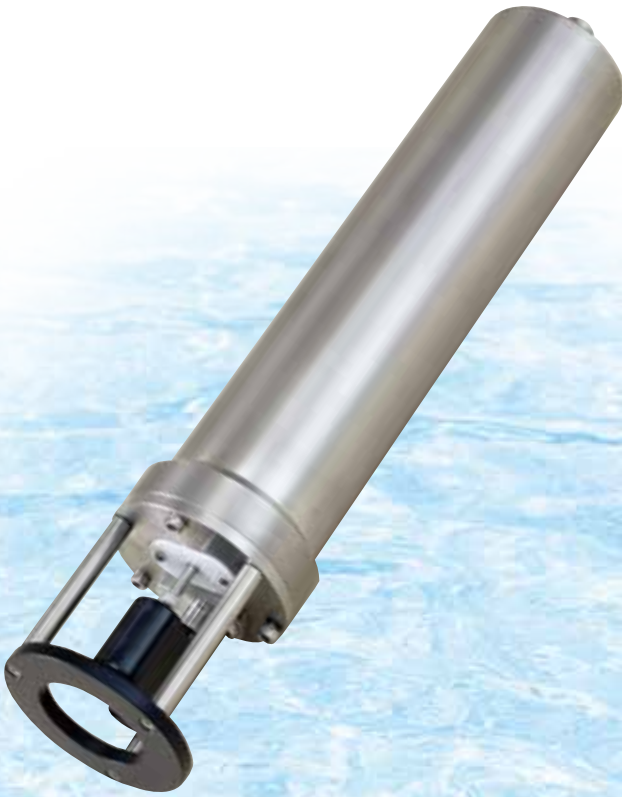


# Logger version conductivity and temperature sensor with wiper

# INFINITY-CTW

## ACTW-USB

Temperature Salinity



### Description

*Infinity-CTW* is an autonomously deployable data logger for high accurate temperature and salinity measurements during the long-term periods. The instrument has a mechanical wiper that periodically sweeps the sensing surface of the seven-electrode conductivity cell to keep the initial accuracy against bio-fouling without chemical materials and frequent maintenances. *Infinity-CTW* allows you to provide accurate and stable salinity measurements for several months-long without cleaning maintenances. *Infinity-CTW* performance was evaluated and reported by Alliance for Coastal Technologies ([www.act-us.info/evaluations.php#Salinity](http://www.act-us.info/evaluations.php#Salinity), ACT code: VS09-06).

### Sensor Specifications

Parameter	Temperature	Electric conductivity
Principle	Thermistor	7-electrode type
Range	-3 to 45°C	2 to 70mS/cm
Resolution	0.001°C	0.001mS/cm
Accuracy	±0.01°C(0 to 35°C)	±0.01mS/cm(2 to 65mS/cm)

### Logger Specifications

Memory medium	miniSD card *waterproof & high speed type
Data capacity	1 GB provided as standard (miniSD card)
A/D convertor	16-bit digital conversion
Measuring mode	Continuous mode, Burst mode
Measuring interval	0.1 to 600 seconds
Burst sampling interval	1 to 1,440 minutes
No. of samples	1 to 18,000
Battery	CR-V3 lithium / 3.3Ah (four maximum)
Communication	USB 2.0 (Ver. 1.1 compatible)
Current consumption	110mA
Housing material	Titanium (grade 2)
Dimensions	φ70mm×342mm(including sensor card)
Weight	Approx. 1.5kg in air, 0.6kg in water
Depth rating	500m depth equivalent

### Observation Example

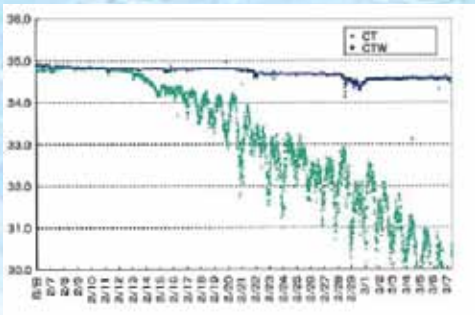


Image after sampling

### Drawing

