OCEANSCIENCE

UnderwayCTD

Sea-Bird "Free Fall" CTD Profiler

- Heavy duty connectors.
- Ruggedized construction.
- Special quick release tail spool.
- Gravity flow through conductivity cell.
- Weight 3.6 Kg (in air).
- Drop Speed 4m/s.
- 570mm (L) x 62mm (D).
- Depth Rating 2000m
- Battery life 50 casts or 12 hrs of continuous use.
- Integral bluetooth antenna with 50m range.
- Internal memory 60 casts or >12 hrs operation.
- Flow cell with internal platinum reference electrodes.
- Glass coated thermistor.

UnderwayCTD

The Oceanscience UnderwayCTD provides research-quality CTD profiles from moving vessels. The compact system offers fast and deep profiling, and can be installed on practically any vessel. The UnderwayCTD includes a custom design precision Sea-Bird CTD probe.

Free Fall CTD Profiling

The Sea-Bird CTD probe is deployed on a special tail spool, which can be loaded with high strength line to afford deep vertical profiles. The probe features a precision "gravity pumped" flow cell, ensuring excellent conductivity and temperature data, sampled at 16Hz to give fine depth structure. The probe descent is steady and fast, resulting from the low drag design. Upon retrieval, the quick release tail spool can be removed, exposing the bluetooth antenna to allow easy data downloading. The long battery life and internal memory allow multiple profiles to be stored on the probe before downloading is needed.

The specifications of the probe are shown below. Compared to expendable profilers, data quality is superior with accurate depth information instead of inferred depth from drop rate equations.

	Conductivity (S/m)	Temperature (C)	Depth (dbar)	Salinity (psu)
Resolution	0.0005	0.002	0.5	0.005
Data Accuracy				
Raw	0.03	0.01 - 0.02	4	0.3
Processed	0.002 - 0.005	0.004	1	0.02 - 0.05
Range	0 - 9	-5 - 43	0 - 2000	0 - 42

Order Codes

UC-PRO - Underway CTD profiler and tail spool, with bluetooth software.
U-DPRO - Dummy probe for training purposes.
PRECAL - Recalibration and inspection.

Warranty

One Year on all components.

Contact Information

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