

CTD WITH ACTIVE ANTIFOULING



HIGH ACCURACY,
LONG DEPLOYMENTS

The RBRduo³ C.T|uv and RBRconcerto³ C.T.D|uv offer the same features as our trusted conductivity, temperature, and depth instruments, plus active antifouling. Four UV LEDs illuminate critical sensor surfaces and control biological growth on the conductivity cell, thus maintaining high accuracy measurements during extended deployments in the photic zone.

FEATURES



The following configurations are available:

- ▶ RBRduo³ C.T|uv conductivity and temperature
- ▶ RBRconcerto³ C.T.D|uv conductivity, temperature, and pressure

The RBRduo³ C.T|uv and RBRconcerto³ C.T.D|uv are perfect for long-term deployments on surface buoys, seafloor observatories, and cabled realtime monitoring systems. Salinity is derived directly within the instrument from the conductivity and temperature measurements. Equipped with a depth channel, the RBRconcerto³ C.T.D|uv can also derive density anomaly and speed of sound. Both instruments come with a Wi-Fi module and twist activation.

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The RBRduo³ C.T|uv and RBRconcerto³ C.T.D|uv instruments are equipped with connectorized end-caps designed to connect to external battery canisters or cabled power. Backup internal batteries ensure uninterrupted sampling through sporadic power disruptions. Stream your realtime data through RS-232/485, or download a complete dataset at the end of your deployment using USB-C. A dedicated holder makes it simple to replace desiccant before each deployment. The calibration coefficients are stored on the instrument, and only one software tool, Ruskin, is required to operate it. Datasets can be read directly in Matlab, or exported to Excel, OceanDataView®, or text files.

Specifications

Physical

Storage	240M readings
Power	8 AA cells (alkaline or Li iron)
External power	4.5 to 30V
Communication	USB-C or RS-232/485
Clock drift	±60 seconds/year
Housing	Plastic
Diameter	63.3mm housing, 100mm guard
Length	470mm
Weight	~1.7kg in air, ~0.25kg in water
Max depth rating	200m
Sampling rate	1min or 30s



Conductivity

Range	0-85mS/cm
Initial accuracy	±0.003mS/cm
Resolution	<0.0001mS/cm
Typical stability	±0.010mS/cm per year

Temperature

Range*	-5°C to 35°C
Initial accuracy	±0.002°C
Resolution	<0.00005°C
Typical stability	±0.002°C per year
Time constant	<20s

* A wider temperature range is available upon request. Contact RBR for more information.

Pressure

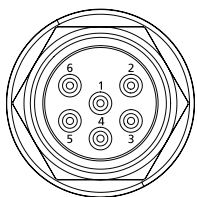
Range	20 / 50 / 100 / 200dbar
Initial accuracy	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.05% full scale per year
Time constant	<10ms

Antifouling

Illumination type	UV-C light (275nm)
Peak power	
Low level	3.0W (250mA at 12V)
Standard level	3.6W (300mA at 12V)
Average power	
Low level	260mW (22mA at 12V)
Standard level	750mW (63mA at 12V)
UV interval	60s
Duty cycle	25% (15s)

MCBH-6-MP connector pinout

Pin No.	USB	RS-232	RS-485
▶ 1	Ground		
▶ 2	Power 4.5 to 30V		
▶ 3	N/C	Tx	Tx-
▶ 4	5V	Rx	Rx+
▶ 5	D-	N/C	Rx-
▶ 6	D+	N/C	Tx+



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