RBR

MEASURE THE BLUE PLANET

rbr-global.com

SHORTEST CTD LOGGER

MEASURE MORE,
DEPLOY LONGER,
DOWNLOAD FASTER

The RBR*brevio*³ C.T.D is short in stature but tall on performance. With world-class sensor accuracy, a sampling rate up to 32Hz, and realtime data output, It is uniquely designed to determine salinity. The shortest of RBR standard instruments, the RBR*brevio*³ C.T.D is best suited for applications where size and weight are critical.

FEATURES

- Wi-Fi ready
- Twist activation
- 240M readings
- Up to 32Hz sampling
- USB-C download
- Realtime communications

The following configurations are available:

RBR*brevio*³ C.T.D	2Hz instrument, realtime data output
RBR*brevio*³ C.T.D|fast8	8Hz instrument; fast sensor response, realtime data output
RBR*brevio*³ C.T.D|fast16	16Hz instrument; fast sensor response, realtime data output
RBR*brevio*³ C.T.D|fast32	32Hz instrument; fast sensor response, realtime data output

The RBR*brevio*³ measures conductivity using a rugged inductive cell that is not affected by surface contaminants or freezing conditions. The CFD-optimised, low aspect ratio conductivity cell is self-flushing and does not require a pump. Data accuracy is improved and salinity spikes are reduced with the co-located fast-response thermistor. Equipped with a pressure channel, the RBR*brevio*³ C.T.D can also derive depth, density anomaly, and speed of sound.

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The RBR*brevio*³ C.T.D instruments facilitate optimal measurement schedules, whether moored, towed, or profiling. Select a right-angle or in-line connector to fit your needs. The instrument comes with a Wi-Fi module and twist activation. The variant in titanium housing is available for deep applications (|deep), designed to endure harsh conditions. Large storage capacity and reliable battery power facilitate long deployments with higher sampling rates. Downloads are quick with USB-C. A dedicated holder makes it simple to replace desiccant before each deployment. The calibration coefficients are stored with 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	4 AA cells
External power	4.5 to 30V
Communication	USB-C or RS-232/485
Clock drift	±60 seconds/year
Housing	Plastic or titanium
Diameter	
Plastic	63.3mm
Ti	60.3mm
Length[1]	330-400mm
Weight[2]	
Plastic	0.9-1.0kg in air, 0.14-0.21kg in water
Ti	1.7-2.0kg in air, 1.0-1.1kg in water
Depth rating	Up to 6000m
Sampling rate	2Hz; options up to 32Hz

[1] Dependent on the battery end-cap type.
[2] Without batteries. Dependent on the battery end-cap type.

Conductivity

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

Temperature

Range[3]	-5°C to 35°C
Initial accuracy	±0.002°C
Resolution	<0.00005°C
Typical stability	±0.002°C per year
Time constant	<0.1s |fast, <1s standard

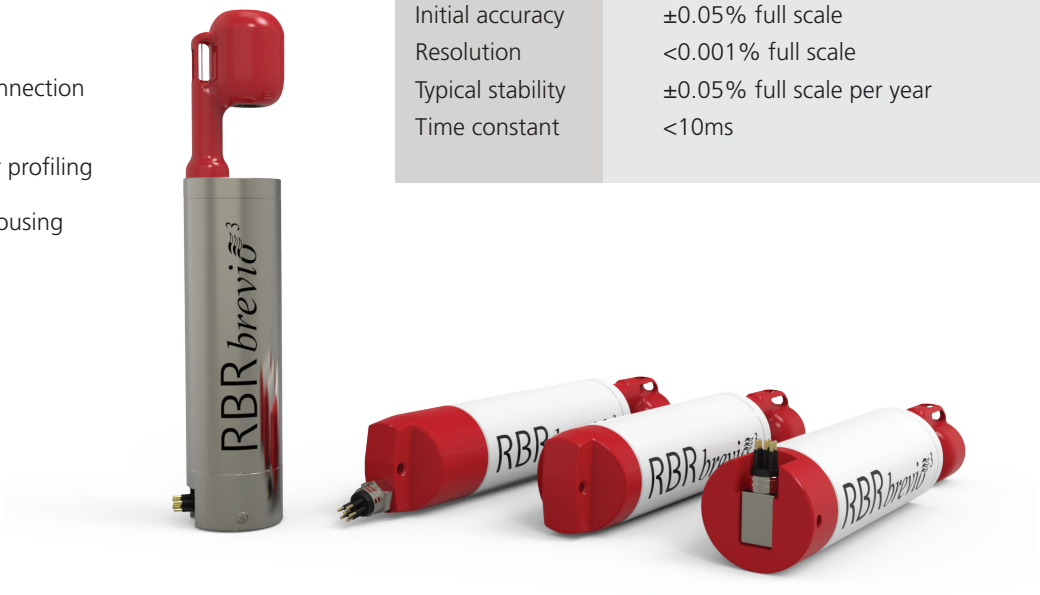
[3] A wider temperature range is available upon request. Contact RBR for more information.

Pressure

Range	
Plastic	20 / 50 / 100 / 200 / 500 / 750dbar
Ti	1000 / 2000 / 4000 / 6000dbar
Initial accuracy	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.05% full scale per year
Time constant	<10ms

Options

- Wi-Fi communication
- External data and power connection via connectorised end-caps
- |fast8 or |fast16 variants for profiling
- |deep variants in titanium housing for depths up to 6000m



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