RBR
MEASURE THE BLUE PLANET

SMALLEST CTD FOR INTEGRATED APPLICATIONS

REALTIME DATA OUTPUT AND INTERNAL DATA LOGGING

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, the RBR*brevio*³ is the smallest CTD to integrate into your towed vehicle, AUV, ASV, or ROV. Optimized for vehicle integration applications, the RBR*brevio*³ offers a short housing and right-angle or in-line connector to fit your needs. The CTD is used to derive salinity, density anomaly, and sound velocity. When mounted on a stationary subsea vehicle, the pressure sensor may be used to measure high-frequency waves.

FEATURES

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

The RBR*brevio*³ is available in the following configurations:

▶ 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. Totally silent operation is optimized for stealth missions and passive acoustic listening. Data accuracy is improved and salinity spikes are reduced with the co-located fast-response thermistor.

RBR
MEASURE THE BLUE PLANET

SMALLEST CTD FOR INTEGRATED APPLICATIONS
REALTIME DATA OUTPUT AND INTERNAL DATA LOGGING

The short length of the RBR*brevio*³ C.T.D makes it perfect for integrated applications on your towed vehicle, AUV, ASV, or ROV. For realtime data or fully integrated applications, the right-angle or in-line connector allows the RBR*brevio*³ to be connected and controlled by your system. Alternatively, the RBR*brevio*³ may be operated autonomously via the internal four AA batteries and enough memory to collect 240 million readings. Twist activation allows the RBR*brevio*³ to be started with a rotation of the end-cap. Wi-Fi connectivity via iOS and Android facilitates direct control of the RBR*brevio*³ and the ability to download all of the data from your mission. The large data storage capacity and fast download ability facilitate long deployments with higher sampling rates. Dataset export to Matlab, Excel, OceanDataView®, or text files makes post processing with your own algorithms effortless.

Specifications

Physical

Storage:	240M readings
Internal power:	4 AA cells
External power:	4.5-30V
Communication:	RS-232
Clock drift:	±60 seconds/year
Depth rating:	750m (plastic), 6,000m (titanium)
Housing:	Plastic or titanium
Size:	>326mm x 63.3mm (plastic)
	>317mm x 60.3mm (titanium)
Weight:	~1.00kg in air (plastic)
(without batteries)	~1.75kg in air (titanium)
	~0.20kg in water (plastic)
	~1.00kg in water (titanium)
Sampling speed:	2Hz to 24h
Fast option:	|fast8 — 4, 8Hz
	|fast16 — 4, 8, 16Hz
	|fast32 — 4, 8, 16, 24, 32Hz

Conductivity

Range:	0-85mS/cm
Initial accuracy:	±0.003 mS/cm
Resolution:	0.001 mS/cm
Typical stability:	0.010 mS/cm per year

Temperature

|	
Range:	-5°C to 35°C
Initial accuracy:	±0.002°
Resolution:	0.00005°C
Time constant:	~1s (standard), ~0.1s (option)
Typical stability:	0.002°C per year

Depth

Range:	20 / 50 / 100 / 200 / 500 / 750 1000 / 2000 / 4000 / 6000 dbar
Initial accuracy:	±0.05% FS (full scale)
Resolution:	0.001% FS
Time constant:	<0.01s
Typical stability:	0.05% FS

Options

▶ Wi-Fi communication
▶ \|fast8, \|fast16 or \|fast32Hz sampling for profiling
▶ External data and power connector with RS-232
▶ The RBR*brevio*³ is available with a blank end cap, in-line connectorised end cap, or right-angle connectorised end cap
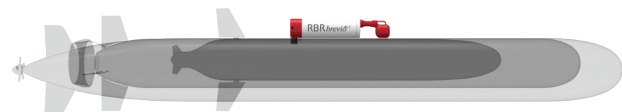
RBR Ltd

+1 613 599 8900
info@rbr-global.com
rbr-global.com