RBR

MEASURE THE BLUE PLANET

rbr-global.com

MOORED AND PROFILING INSTRUMENTS

CT AND CTD DATA LOGGERS

The RBR*duo*³ C.T and the RBR*concerto*³ C.T.D are unique data loggers dedicated to the determination of salinity. Salinity is calculated by measuring the conductivity and temperature of the water. Equipped with a depth channel, the RBR*concerto*³ C.T.D can also derive density anomaly and speed of sound. The RBR*duo*³ C.T and the RBR*concerto*³ C.T.D are available in configurations that support moored or profiling applications, and come equipped with twist activation.

FEATURES

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

RBR CT and CTD data loggers are available in the following configurations:

- RBR*duo*³ C.T — moored instrument; measures conductivity and temperature
- RBR*concerto*³ C.T.D — moored instrument; measures conductivity, temperature and depth
- RBR*concerto*³ C.T.D.Tu|fast8 — turbidity, 8Hz profiling instrument; fast sensor response
- RBR*concerto*³ C.T.D|fast16 — 16Hz profiling instrument; fast sensor response
- RBR*concerto*³ C.T.D|fast32 — 32Hz profiling instrument; fast sensor response

RBR CT and CTD loggers make it simple to configure the optimum sampling regime for your measurements. The large data storage capacity and fast download ability facilitate long deployments with higher sampling rates. The loggers are available in a standard body or extended body with additional power for extended deployments. Conductivity measurements are performed using a rugged inductive cell that can be frozen into ice. Dataset export to Matlab, Excel, OceanDataView®, or text files makes post processing with your own algorithms effortless.

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Specifications

Physical

Storage:	240M readings
Power:	8 AA cells
Communication:	USB-C or RS-232/485
Clock drift:	±60 seconds/year
Depth rating:	750m (plastic) 10,000m (titanium)
Housing:	Plastic or titanium
Size:	~355 or 490mm x Ø63.25mm
Weight:	~1300g in air, 200g in water
Sampling period:	1s to 24h (moored)
Fast option:	|fast8 — 1 – 8Hz (profiling) |fast16 — 1 – 8, 16Hz (profiling) |fast32 — 1 – 8, 16, 32Hz (profiling)

Conductivity (up to 6000m)

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 / 10,000m (dbar)
Initial accuracy:	±0.05% FS (full scale)
Resolution:	0.001% FS
Time constant:	<0.01s
Typical stability:	0.05% FS per year

Options

- Wi-Fi communication
- |fast8, |fast16 or |fast32Hz sampling for profiling
- External data and power connector with USB, RS-232, or RS-485

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