RBR

MEASURE THE BLUE PLANET

rbr-global.com

RBR*duo*³ C.T, RBR*concerto*³ C.T.D

CT AND CTD LOGGERS

MEASURE MORE,
DEPLOY LONGER,
DOWNLOAD FASTER

The RBR*duo*³ C.T and the RBR*concerto*³ C.T.D are uniquely designed to determine salinity by measuring the conductivity and temperature of water. Conductivity measurements are performed using a rugged inductive cell that can be frozen into ice. Equipped with a pressure channel, the RBR*concerto*³ C.T.D can also derive depth, density anomaly, and speed of sound.

FEATURES

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

The following configurations are available:

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|fast8	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

CT AND CTD LOGGERS

MEASURE MORE, DEPLOY LONGER, DOWNLOAD FASTER

The RBR*duo*³ C.T and the RBR*concerto*³ C.T.D instruments facilitate optimal measurement schedules, whether moored, towed, or profiling. Both instruments come with a Wi-Fi module and twist activation. Variants in titanium housing are 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	8 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	
With standard end-cap	~440mm
With connectorised end-cap	~490mm
Weight	
Plastic	~1.3kg in air, ~0.2kg in water
Ti	~2.8kg in air, ~1.6kg in water
Depth rating	up to 6000m (configuration dependent)
Sampling rate	2Hz; options up to 32Hz

Conductivity

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

Temperature

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

* 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, |fast16, or |fast32 variants for profiling
- |deep variants in titanium housing for depths up to 6000m

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