Multi-Channel Logger

Measure deeper, deploy longer, download faster

The RBR*concerto* multi-channel logger supports numerous sensors, offers flexible measurement schedules, sampling up to 1 Hz, large memory, ample power for extended deployments, and fast USB download for large data sets. Optional features include; fast sampling (up to 12Hz), thresholding and twist activation.

Features

- Up to 5 channels
- Long deployments
- USB 2.0 download
- Up to 120M readings
- Up to 12Hz sampling
- Real-time communication options

The RBR*concerto* can be equipped with any five channel combinations.

Standard configurations:

RBR*concerto* C.T.Tu	moored instrument; measures conductivity, temperature and turbidity
RBR*concerto* C.T.D.Tu	moored instrument; measures conductivity, temperature, depth and turbidity
RBR*concerto* C.T.D.Tu|fast6	6Hz profiling instrument; fast sensor response
RBR*concerto* C.T.D.Tu|fast12	12Hz profiling instrument; fast sensor response

Custom configurations can include up to five of the following options:

- Conductivity
- Temperature
- Depth (Pressure)
- Fluorescence
- PAR
- Turbidity
- pH
- ORP (RedOx)
- Tide
- Dissolved O_2
- Transmission
- Wave

RBR*concerto* loggers make it easy 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 RBR*concerto* is also available in an extended body that has more battery power for longer deployments or to support additional sensors configurations. Almost any sensor from RBR can be interfaced to the RBR*concerto*. Dataset export to Matlab®, Excel®, OceanDataView®, or text files facilitate post processing with external algorithms.

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Specifications

Physical

Power:	8 or 16 3V CR123A cells
Storage:	~30M readings
Communication:	USB 2.0 or RS-232/485
Clock accuracy:	± 60 seconds per year
Depth rating:	740m (plastic), 10,000m (titanium)
Size:	Configuration dependent
Weight:	Configuration dependent
Sampling period:	1s to 24h (moored)
Fast option:	|fast6 — 1 – 6Hz (profiling) |fast12 — 1 – 6Hz, 12Hz (profiling)

Conductivity (up to 2000m)

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
Typical stability:	0.002°C per year
Time constant:	~1s (standard), ~0.1s (option)

Pressure (Depth)

Range:	20 / 50 / 100 / 200 / 500 / 1000 / 2000 / 4000 / 6000m / 10,000m (dbar)
Initial accuracy:	±0.05% FS (full scale)
Resolution:	0.001% FS or 0.001dbar w.i.g.
Typical stability:	0.05% FS per year
Time constant:	<0.01s

Options

- |fast6 or |fast12 Hz sampling for profiling
- Wi-Fi communication
- Twist activation (enable/disable)
- Extended body, 8 additional batteries
- External data and power connector
- Extended memory: 60M or 120M readings

RBR Limited
95 Hines Road, Ottawa, Ontario, Canada K2K 2M5
Tel: +1 613 599 8900 Fax: +1 613 599 8929
info@rbr-global.com www.rbr-global.com