MEASURE MORE, DEPLOY LONGER, DOWNLOAD FASTER

MULTI-CHANNEL LOGGER (3-5)

The RBR*concerto*³ multi-channel logger supports numerous sensors, offers flexible measurement schedules, standard sampling up to 2Hz, optionally up to 32Hz, large memory, ample power for extended deployments, USB-C download for large data sets, and twist activation.

FEATURES

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

The RBR*concerto*³ can be equipped with any five channel combinations. Examples:

- RBR*concerto*³ C.T.Tu — moored instrument; measures conductivity, temperature, and turbidity
- RBR*concerto*³ C.T.D.Tu — moored instrument; measures conductivity, temperature, depth, and turbidity
- 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

Custom configurations can include up to 5 of the following options:

- Temperature
- Depth
- Conductivity
- pCO_2
- Tides
- Waves
- Dissolved O_2
- pCH_4
- Turbidity
- Fluorescence
- Transmission
- Nitrate
- pH
- ORP (RedOx)
- PAR
- Irradiance

MULTI-CHANNEL LOGGER (3-5)

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RBR*concerto*³ 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*³ 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*³. Dataset export to Matlab, Excel, OceanDataView®, or text files makes post processing with your own algorithms effortless.

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:	Configuration dependent
Weight:	Configuration dependent
Sampling speed:	2Hz to 24h
Fast option:	|fast8 — 1 – 8Hz (profiling) |fast16 — 1 – 8, 16Hz (profiling) |fast32 — 1 – 8, 16, 24, 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:	0.1% 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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