

Multi-Channel Logger (3-13)

Measure deeper, deploy longer, download faster

The RBR*maestro* multi-channel logger supports 3-13 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. The RBR*maestro* has the flexibility for 13 channels that can be configured to meet your measurement needs.

Features

- Up to 13 channels
- Long deployments
- USB 2.0 download
- Up to 12Hz sampling
- Up to 120M readings
- Real-time communications



The RBR*maestro* can be equipped with any 13 channel combinations.

Sample configurations:

RBR<i>maestro</i> C.T.D.+	moored instrument; measures conductivity, temperature, depth and up to 10 additional parameters
RBR<i>maestro</i> C.T.D.+ fast6	6Hz profiling instrument; as above with fast sensor response
RBR<i>maestro</i> C.T.D.+ fast12	12Hz profiling instrument; as above with fast sensor response

Custom configurations can include up to 13 of the following options:

- Conductivity
- Temperature
- Depth (Pressure)
- Fluorescence
- PAR
- Turbidity
- pH
- ORP (RedOx)
- Tide
- Dissolved O₂
- Transmission
- Wave

RBR*maestro* 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*maestro* has more battery power for extended deployments and supports additional sensor configurations. Almost any sensor from RBR can be interfaced to the RBR*maestro*. Dataset export to Matlab®, Excel®, OceanDataView®, or text files facilitate post processing with external algorithms.

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Specifications

Physical

Power:	16 3V CR123A cells
Storage:	~30M readings
Communication:	USB 2.0 or RS-232/485
Clock accuracy:	± 60 seconds per year
Depth rating:	Up to 2000m — sensor dependent
Size:	Configuration dependent
Weight:	Configuration dependent
Sampling period:	1s to 24h (moored)
Fast option:	fast6 — 1 – 6Hz fast12 — 1 – 6Hz, 12Hz

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 (dbar)
Initial accuracy:	±0.05% FS (full scale)
Resolution:	0.001% FS or 0.001 dbar w.i.g.
Time constant:	<0.01s
Typical stability:	0.05% FS per year

Options

- Wi-Fi communication
- Twist activation
- |fast6 or |fast12 Hz sampling for profiling
- External data and power connector
- Extended memory: 60M or 120M readings

