

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
- Fast USB download
- Up to 12Hz sampling
- Up to 120M readings



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

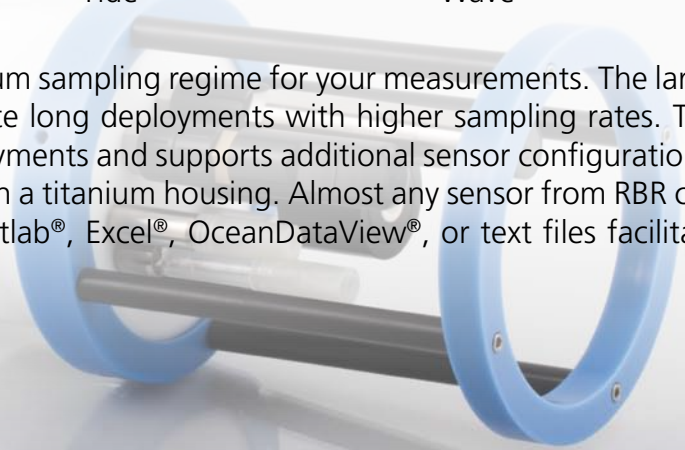
Sample configurations:

- | | |
|---|---|
| RBR<i>maestro</i> C.T.D.+ | salinity recorder, measures conductivity, temperature, depth and up to 10 additional parameters |
| RBR<i>maestro</i> C.T.D.+ fast6 | as above with 6Hz sampling and fast sensor response for profiling |
| RBR<i>maestro</i> C.T.D.+ fast12 | as above with 12Hz sampling and fast sensor response for profiling |

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

- | | | | |
|--------------------|----------------|---------------|----------------------------|
| • Conductivity | • Fluorescence | • pH | • Dissolved O ₂ |
| • Temperature | • PAR | • ORP (RedOx) | • Transmission |
| • Depth (Pressure) | • Turbidity | • Tide | • 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. For deep water applications the RBR*maestro* is available in a titanium housing. 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:	True USB or RS-232/485
Clock accuracy:	± 60 seconds/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

Pressure (Depth)

Range:	20 / 50 / 100 / 200 / 500 / 1000 / 2000m (dbar)
Accuracy:	±0.05% full scale
Resolution:	<0.001% full scale
Time Constant:	<0.01s
Drift:	~0.05%/year - typical

Temperature

Range:	-5°C to 35°C
Accuracy:	±0.002°
Resolution:	<0.00005°C
Time constant:	~1s (standard), 100ms (fast)
Drift:	~0.002°C/year - typical

Conductivity (up to 2000m)

Range:	0-85mS/cm
Accuracy:	±0.003 mS/cm at 35psu 15°C
Drift(T):	1 µS/cm over 5°C to 25°C
Drift(t):	~1 µS/cm/month
Resolution:	~1 µS/cm (marine)
Cell length:	40 mm
Time constant:	<100ms set by flow through cell

Options

- Wireless (WiFi) communication
- Twist activation (enable/disable)
- External data and power connector

