RBR
MEASURE THE BLUE PLANET

MEASURE MORE, DEPLOY LONGER, DOWNLOAD FASTER

MULTI-CHANNEL LOGGER (3-10)

The RBR*maestro³* multi-channel logger supports 3-10 sensors, offers flexible measurement schedules, sampling up to 16 Hz, large memory, ample power for extended deployments, twist activation, and fast USB download for large data sets. Optional features include fast sampling, thresholding, and Wi-Fi. The RBR*maestro³* has the flexibility for 10 channels that can be configured to meet your measurement needs.

FEATURES

Wi-Fi ready	Twist activation	240M readings	Up to 16Hz sampling	USB-C download	Realtime communications

The RBR*maestro³* can be equipped with any 10 channel combinations. Examples:

▶ RBR*maestro³* C.T.D+   moored instrument; measures conductivity, temperature, depth and up to 7 additional parameters

▶ RBR*maestro³* C.T.D+|fast8   8Hz profiling instrument; as above with fast sensor response

▶ RBR*maestro³* C.T.D+|fast16   16Hz profiling instrument; as above with fast sensor response

Custom configurations can include up to 10 of the following options:

▶ Temperature
▶ Depth
▶ Conductivity
▶ pCO_2

▶ Tide
▶ Wave
▶ Dissolved O_2
▶ pCH_4

▶ Turbidity
▶ Fluorescence
▶ Transmission
▶ pH

▶ ORP (RedOx)
▶ PAR
▶ Irradiance

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RBR*maestro³* 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*maestro³* has more battery power for extended deployments and supports additional sensor configurations. Almost any sensor from RBR can be interfaced to the RBR*maestro³*. 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:	Up to 10,000m - sensor dependent
Housing:	Plastic or titanium
Size:	Configuration dependent
Weight:	Configuration dependent
Sampling period:	1s to 24h (moored)
Fast option:	|fast8 — 1, 2, 4, 8Hz
	|fast16 — 1, 2, 4, 8, 16Hz

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:	0.05% FS per year

Options

▶ Wi-Fi communication
▶ \|fast8 or \|fast16 sampling for profiling
▶ External data and power connector with USB, RS-232, or RS-485

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