

SINGLE CHANNEL LOGGER



MEASURE MORE,
DEPLOY LONGER,
DOWNLOAD
FASTER

The RBR*virtuoso*³ single channel loggers offer flexible measurement schedules, standard sampling up to 2Hz, optionally up to 32Hz, large memory, extra power for extended deployments, twist activation, and USB-C download for large data files.

FEATURES



The RBR*virtuoso*³ is available in the following configurations:

- ▶ Temperature
- ▶ Depth
- ▶ Conductivity
- ▶ Tides
- ▶ Waves
- ▶ Dissolved O₂
- ▶ Turbidity
- ▶ Fluorescence
- ▶ T-string
- ▶ pH
- ▶ ORP (RedOx)
- ▶ PAR

The RBR*virtuoso*³ makes 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.

Almost every sensor from RBR can be interfaced to the RBR*virtuoso*³. Dataset export to Matlab, Excel, OceanDataView®, or text files makes post processing with your own algorithms effortless.

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Specifications

Physical

Power:	8 AA cells
Storage:	240M readings
Communication:	USB-C or RS-232/485
Clock drift:	±60 seconds/year
Depth rating:	750m (plastic) or 10,000m (Ti)
Housing:	Plastic or titanium
Size:	~340mm x Ø63.3mm / ~ Ø60.3mm (Ti)

Example Sensors

Pressure

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
Typical stability:	0.05% FS
Time constant:	<0.01s

Temperature

Range:	-5°C to 35°C
Initial accuracy:	±0.002°
Resolution:	0.00005°C
Time constant:	~1s (standard) or ~0.1s (option)
Typical stability:	0.002°C per year

Dissolved Oxygen (OxyGuard®)

Range:	0 to 600%
Accuracy:	±2% O ₂ saturation (5°C to 25°C)
Resolution:	1% of saturation
Response time:	~10s, 90% step change @ 20°C

Turbidity (Seapoint Sensors)

Light source:	880nm
Time constant:	0.1s
Linearity:	<2% deviation 0-1250 FTU

Fluorescence (Seapoint Sensors)

Excitation:	Various wavelengths
Time constant:	0.1s
Range:	0.02µg/l to 150µg/l

Contact RBR for other sensor options.

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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