

Single Channel Logger

Measure more, deploy longer, download faster

RBR*virtuoso* single channel loggers offer flexible measurement schedules, sampling up to 1Hz, large memory, extra power for extended deployments, and USB 2.0 download for large data files. Optional features include sample averaging and up to 6Hz sampling.

Features

- Long deployment
- 30M readings
- USB 2.0 download speed
- Optional averaging and fast sampling



RBR*virtuoso* - single channel logger with one of the following sensors/functions*:

- | | | | |
|--------------------|----------------------------|----------------|-------|
| • Temperature | • Tide | • Turbidity | • pH |
| • Depth (Pressure) | • Tide and Wave | • Fluorescence | • ORP |
| • Wave | • Dissolved O ₂ | • T-string | • PAR |

*Contact RBR for sensor availability

The RBR*virtuoso* 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.

The RBR*virtuoso* is available in a standard body or extended body with more power. Almost every sensor from RBR can be interfaced to the RBR*virtuoso*. Dataset export to Matlab®, Excel®, or text files make post processing with your own algorithms easy.



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Specifications

Physical

Power:	8 or 16 CR123A 3V cells
Communication:	USB 2.0 or RS-232/485
Storage:	~30M readings
Clock accuracy:	±60 seconds per year
Depth Rating:	740m (plastic) or 10,000m (Ti)
Size:	~260mm x Ø63.3mm/60.3mm (Ti)
Housing:	Plastic or titanium

Example Sensors

Pressure (Depth)

Range:	20 / 50 / 100 / 200 / 500 / 1000 / 2000 / 4000 / 6000m
Initial accuracy:	±0.05% FS (full scale)
Resolution:	<0.001% FS or 0.001 dbar w.i.g.
Typical stability:	0.1% FS per year
Time constant:	<0.01s

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) or ~0.1s (optional)

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 0-750 FTU

Fluorescence (Seapoint Sensors)

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

Contact RBR for other sensor options

