

# Single Channel Recorder

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 fast USB download for large data files. Optional features include sample averaging and up to 6Hz sampling.

## Features

- Long deployment
- 30M readings
- Fast USB 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 <sub>2</sub> | • 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. When you need a single channel logger with a specific sensor, function or deployment duration that the 1060 series does not support; the RBR*virtuoso* can.

The RBR*virtuoso* is available in a standard body or extended body with more power for long deployments. 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:	True USB or RS-232/485
Storage:	~30M readings
Clock accuracy:	±60 seconds/year
Depth Rating:	740m or 10,000m
Size:	~260 or 395mm x Ø63.5mm without sensors
Housing:	Plastic or titanium

### Example Sensors

#### Pressure (Depth)

Range:	20 / 50 / 100 / 200 / 500 / 1000 / 2000 / 4000 / 6000m (dBar)
Accuracy:	±0.05% full scale
Resolution:	<0.001% full scale
Time constant:	<0.01s
Drift:	~0.1%/year - typical

#### Temperature

Range:	-5°C to 35°C
Accuracy:	±0.002°
Resolution:	<0.00005°C
Time constant:	~1s (standard) or ~0.1s (optional)
Drift:	0.002°C/year - typical

#### Dissolved Oxygen (OxyGuard®)

Range:	0 to 600%
Accuracy:	±2% O <sub>2</sub> 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

### Other

Contact RBR for other sensor options

