

# Small Single Channel Recorder

Temperature, depth, DO, turbidity, fluorescence

The RBRsolo is our most compact, lightweight, and versatile single channel logger. The logger offers flexible measurement schedules, fast sampling up to 2Hz, large memory, extra power for extended deployments, and fast USB download for large data files.

## Features

- Compact and lightweight
- High accuracy
- More than 20M measurements
- Up to 2Hz sampling
- Fast USB download speed
- Cabled real-time variant |rt



The RBRsolo recorder is available in the following configurations:

<b>RBRsolo T</b>	temperature recorder for depths up to 1700m
<b>RBRsolo T 10k</b>	temperature recorder for depths up to 10,000m
<b>RBRsolo D</b>	pressure (depth) recorder for depths up to 1000m
<b>RBRsolo D 10k</b>	pressure (depth) recorder for depths up to 10,000m
<b>RBRsolo DO</b>	dissolved oxygen recorder (OxyGuard® Ocean D.O. Probe) for depths up to 1700m
<b>RBRsolo Tu</b>	turbidity recorder (Turner Cyclops 7 Tu or Seapoint Tu) up to 600m or 1700m
<b>RBRsolo Fl</b>	fluorescence recorder (Turner Cyclops 7 Fl) up to 600m

The RBRsolo makes it easy to configure the optimum sampling regime for your measurements whether it is moored, towed, or profiling. The large data storage capacity and fast download ability facilitate long deployments with high sampling rates. The RBRsolo is small and streamlined for towing or profiling. The unique temperature sensor end cap, for instance, facilitates flow around the thermistor to reduce response time. Dataset export to Matlab™, Excel™, or text files makes post processing with your own algorithms simple and easy.

# Small Single Channel Recorder

Temperature, depth, dissolved oxygen

## Specifications

### Physical

Power:	3.6V LiSOCl <sub>2</sub> AA cell
Communication:	Fast USB
Storage:	~20M readings
Clock accuracy:	±60 seconds/year
Diameter:	25.4mm
Length:	>210mm sensor dependent
Weight:	Varies per sensor configuration

### Depth Logger

Range (OSP):	20 / 50 / 100 / 200 / 500 / 1000 dbar
Range (Ti):	1000 / 2000 / 4000 / 6000 / 10,000 dbar
Accuracy:	±0.05% full scale
Resolution:	<0.001% full scale
Time Constant:	<10ms
Drift:	~0.1%/year

### Temperature Logger

Range:	-5°C to 35°C
Accuracy:	±0.002°C
Resolution:	<0.00005°C
Time Constant:	~1s (standard) ~0.1s (optional)
Drift:	0.002°C/year
Depth Rating (OSP):	1700m
Depth Rating (Ti):	10,000m

### Dissolved Oxygen Logger (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
Depth Rating (OSP):	1700m

### Turbidity or Fluorescence (Turner Cyclops 7)

Excitation:	various wavelengths
Linearity:	0.99R <sup>2</sup> 0-3000NTU or 500ug/l Chla
Temperature Range:	-2°C to 50°C
Depth rating (OSP):	600m

### Turbidity (Seapoint Stm)

Excitation:	880nm
Linearity:	±2% 0-1250NTU
Temperature Range:	-2°C to 50°C
Depth rating (OSP):	1700m logger limited

### |rt real-time variant

External Power:	Requires 6-18V DC ~2mA
Memory:	No on board memory
Data:	RS-232 polled or autonomous streaming
Baud Rate:	1200 to 115k
Connector:	MCBH-6MP