

Small Single Channel Recorder

Temperature, depth, dissolved oxygen

The RBRsolo is our most compact, lightweight, and versatile single channel logger. The logger offers flexible measurement schedules, sampling up to 2Hz and optionally fast sampling up to 16Hz, large memory, more power for extended deployments, and fast USB download for large data files.

Features

- Compact and lightweight
- High accuracy
- More than 20M measurements
- Up to 16Hz sampling (optional)
- Fast USB download speed
- Cabled real-time variant |rt



The RBRsolo recorder is available in the following configurations:

RBRsolo T	temperature recorder for depths up to 1700m
RBRsolo10k T	temperature recorder for depths up to 10,000m
RBRsolo D	pressure (depth) recorder for depths up to 1000m
RBRsolo10k D	pressure (depth) recorder for depths up to 10,000m
RBRsolo DO	dissolved oxygen recorder (OxyGuard® Ocean D.O. Probe) for depths up to 1700m

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.



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Specifications

Physical

Power:	3.6V LiSOCl ₂ AA cell
Communication:	Fast USB
Clock accuracy:	±60 seconds/year
Diameter:	25.4mm

Depth Logger

Range (OSP):	20 / 50 / 100 / 200 / 500 / 1000 dbar
Range (Ti):	1000 / 2000 / 4000 / 6000 / 10,000 dbar
Storage (@ 2Hz)	~14M readings
Accuracy:	±0.05% full scale
Resolution:	<0.001% full scale
Time Constant:	<10ms
Drift:	~0.1%/year
Length:	210mm (OSP); 220mm (Ti)
Weight (air):	114g (OSP); 306g (Ti)

Dissolved Oxygen Logger (OxyGuard®)

Range:	0 to 600%
Storage (@ 2Hz)	~14M readings
Accuracy:	±2% O ₂ saturation (5°C to 25°C)
Resolution:	1% of saturation
Response Time:	~10s, 90% step change @ 20°C
Depth Rating (OSP):	1700m
Length:	250mm (OSP)
Weight (air):	128g (OSP)

Temperature Logger

Range:	-5°C to 35°C
Storage (@ 2Hz)	~25M readings
Accuracy:	±0.002°C
Resolution:	<0.00005°C
Time Constant:	~1s (standard) ~0.1s (fast16) ~10s (embedded)
Drift:	0.002°C/year
Depth Rating (OSP):	1700m
Depth Rating (Ti):	10,000m
Length:	240mm (OSP); 230mm* or 250mm (Ti)
Weight (air):	122g (OSP); 330g* or 310g (Ti)

* embedded thermistor

Sampling Rates

RBRsolo

Sampling rate:	24hr to 1s and 2Hz
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RBRsolo|fast16

Sampling rate:	24hr to 1s and 2, 4, 8 or 16Hz
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|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