Small Temperature Recorder

Compact, accurate, dependable

The RBR*solo* T is our most compact, lightweight, and versatile single channel recorder. The logger offers flexible measurement schedules, fast sampling up to 2Hz, large memory, extra power for extended deployments, fast USB download for large data files, and temperature accuracy of ±0.002°C.

Features

- Compact
- Lightweight
- High accuracy
- 30M measurements
- Up to 2Hz sampling
- Fast USB download speed

The RBR*solo* T 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 higher sampling rates. The RBR*solo* T is small and streamlined making it the ideal instrument for shallow and deep water applications, down to 1700m (depth). The unique temperature sensor end cap facilitates flow at the sensor to reduce response time. Newly designed circuitry improves signal to noise, power consumption and allows for increased sampling rates. A dedicated desiccant holder makes it simple to use and replace desiccant before each deployment.

The RBR*solo* T is one of the most flexible single channel recorders available from RBR and like all RBR instruments, the calibration coefficients are stored with the logger. 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
Storage:	~30M readings
Clock Accuracy:	±60 seconds/year
Depth Rating:	1700m
Diameter:	25.4mm
Length:	240mm
Weight (air):	126g
Weight (water):	20g

Temperature

Range:	-5°C to 35°C
Accuracy:	±0.002°C
Resolution:	<0.00005°C
Time Constant:	1.0s
Drift:	0.002°C/year

Deployment duration

Sampling at 2Hz:	118 days (20.3M readings)
Sampling at 1s:	235 days (20.3M readings)
Sampling at 5s:	3 years (19.0M readings)

RBR Limited
95 Hines Road, Ottawa, Ontario, Canada K2K 2M5
Tel: +1 613 599 8900 Fax: +1 613 599 8929
info@rbr-global.com www.rbr-global.com

RBR Europe Limited
17 Cratlands Close, Stadhampton, Oxfordshire OX44 7TU, UK
Tel: +44 1865 890979 Fax: +44 1865 890979
info@rbr-europe.com www.rbr-europe.com