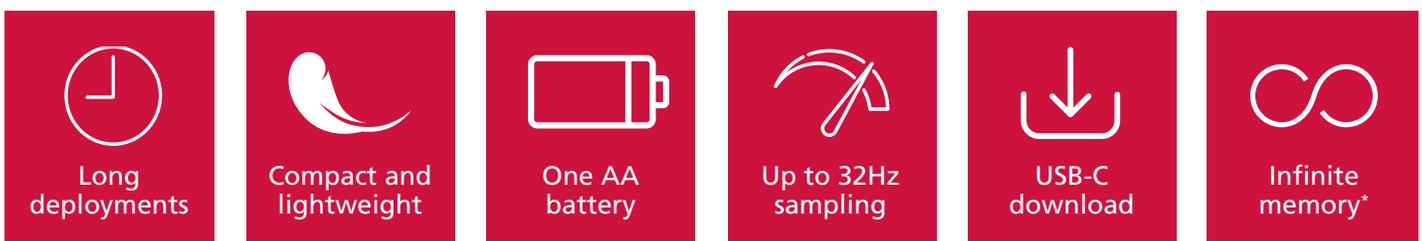# RBR

MEASURE THE BLUE PLANET

SMALL TEMPERATURE LOGGER

COMPACT, ACCURATE, DEPENDABLE

The RBR*solo⁴* T is a compact, lightweight temperature logger designed for high-precision oceanographic measurements in demanding environments. It combines exceptional accuracy and resolution with extremely low power consumption, enabling multi-year deployments using any standard AA battery chemistry. Engineered for durability in harsh marine conditions, the RBR*solo⁴* T delivers reliable, long-term performance across a wide range of oceanographic applications.

FEATURES

| Long deployments | Compact and lightweight | One AA battery | Up to 32Hz sampling | USB-C download | Infinite memory* |

*not really, but we stopped counting at billions of samples.

Available configurations

▶ RBR*solo⁴* T temperature; up to 2Hz continuous sampling, depths up to 1700m
▶ RBR*solo⁴* T|fast temperature; up to 32Hz sampling, depths up to 1700m

Variants

▶ RBR*solo⁴* T|deep temperature; depths up to 10000m
▶ RBR*solo⁴* T|2x temperature; double the autonomy of RBR*solo⁴* T

SMALL SINGLE-SENSOR LOGGER
COMPACT, ACCURATE, DEPENDABLE

The RBR*solo*⁴ T is built for long, accurate field use with low effort. Delivering ±0.002 °C accuracy in a compact, field-ready form factor, it combines lab-grade performance with deployment simplicity. USB-C enables fast configuration and data download, while support for standard AA battery chemistry provides global power options. Paired with Ruskin software for intuitive setup and retrieval, the RBR*solo*⁴ T is designed for exceptionally long deployments, using RBR's latest ultra-low-power electronics to maximize endurance without compromising precision. Data are stored in RSK format and are accessible using RBR's open Python and MATLAB toolboxes, enabling direct integration into workflows and automated processing pipelines. Ruskin provides Excel exports and publication-ready charts in PNG and PDF formats, ensuring straightforward reporting, analysis, and archiving.

Specifications

Physical

Storage	Infinite memory*
Power	Any AA cell
Communication	USB-C
Clock drift	±60 seconds per year
Depth rating	up to 1700m (plastic)
	up to 10000m (Ti)
Diameter	25.4mm (plastic), 25mm (Ti)

Length	1x cell	2x cell
	242mm (plastic)	308mm (plastic)
	245mm (Ti)	315mm (Ti)
Weight	125g (plastic)	159g (plastic)
	295g (Ti)	390g (Ti)

*not really, but we stopped counting at billions of samples.

Temperature

Range*	-5°C to 35°C
Initial accuracy	±0.002°C
Resolution	<0.00005°C
Typical stability	±0.002°C / year
Time constant	<0.1s |fast, <1s standard, <15s |slow

*A wider temperature range is available upon request.

Deployment estimates

RBR*solo*⁴ T

Sampling rates	24hr to 1s, and 2Hz		
Autonomy	Speed	Time	# samples
1x cell	5s	3.6 years	22.7 million
	2Hz	150 days	25.9 million
2x cell	5s	7.2 years	45.6 million
	2Hz	300 days	51.8 million

RBR*solo*⁴ T|fast32

Sampling rates	24hr to 1s, and 2Hz, 4Hz, 8Hz, 16Hz, 24Hz, or 32Hz		
Autonomy	Speed	Time	# samples
1x cell	32Hz	55 days	153.2 million
2x cell	32Hz	111 days	309.3 million

Deep variant

Explore up to 10km deep with RBR*solo*⁴ T|deep

2x variant

Double autonomy with RBR*solo*⁴ T|2x

RBR Ltd

+1 613 599 8900
info@rbr-global.com
rbr-global.com