



The RBRsolo³ T|deep, RBRsolo³ D|deep, and RBRduet³ T.D|deep in titanium are small but incredibly strong. Deployable to the bottom of the Marianas Trench, they still provide temperature accuracy of ± 0.002 °C and are capable of storing 25 million readings on a single battery. Flexible measurement schedules, standard sampling up to 2Hz, optionally up to 32Hz, and USB-C download complement the raw capabilities of this design.

FEATURES











The RBR | deep series is available in a number of configurations. Examples:

► RBRsolo³ T|deep temperature recorder with up to 2Hz sampling

► RBRsolo³ T|fast32|deep temperature recorder with up to 32Hz sampling

▶ RBRsolo³ D|deep depth recorder with up to 2Hz sampling

▶ RBR*duet*³ T.D|deep temperature and depth recorder with up to 2Hz sampling

▶ RBRduet³ T.D | tide16 | deep temperature and tide recorder with up to 16Hz sampling

▶ RBRduet³ T.D | fast32 | deep temperature and depth recorder with up to 32Hz sampling

Designed for deployments in the most challenging environments the two-part titanium alloy housing resists all forms of marine corrosion. Available with either an embedded thermistor that has a 10s time constant or an open thermistor with a 1s time constant, its long deployment autonomy means less ship time is required. Newly designed circuitry provides exceptional signal-to-noise measurement, negligible power consumption, and extended schedules. A dedicated desiccant holder makes it simple to replace desiccant before each deployment.





ABYSSAL RECORDERS

TEMPERATURE, DEPTH AND TIDES

The RBRsolo³ T|deep, RBRsolo³ D|deep, and RBRduet³ T.D|deep are three of the most flexible recorders available from RBR and, like all RBR instruments, the calibration coefficients are stored with the logger. Dataset export to Matlab, Excel, OceanDataView[®], or text files makes post processing with your own algorithms effortless.

Specifications

Physical

Storage: ~25M readings
Power: Any AA cell
Communication: USB-C
Clock drift: ±60 seconds/year

Diameter: 25mm Length: 230mm Weight (air): <400g Weight (water): <70g

Temperature

Range: -5°C to 35°C Accuracy: ±0.002°C Resolution: <0.00005°C

Time constant: 1s (open) 10s (embedded)

Typical stability: 0.002°C/year

Pressure

Range 1000/2000/4000/6000/10km

Initial accuracy: $\pm 0.05\%$ FS Resolution: 0.001% FS Time constant: < 0.01s

Typical stability: 0.1% FS per year

Sampling rates and Autonomy

RBRsolo³ T | deep

Sampling rate:	24hr to 1s, and 2Hz			
Autonomy:	Rate	Duration	# samples	
	5s	5 years	# samples 30M	
	2Hz	180 days	30M	

RBRsolo³ D | deep

Sampling rate:	24hr to 1s, and 2Hz		
Autonomy:	Rate	Duration	# samples
	5s	4 years	25M
	2Hz	140 days	# samples 25M 25M

RBRduet³ T.D | deep

Sampling rate:	24hr to 1s, and 2Hz		
Autonomy:	Rate	Duration	# samples
	5s	4 years	25M
	2Hz	140 days	# samples 25M 25M

Realtime variant

Cabled realtime variant available as the RBRcoda³.



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