RBR
MEASURE THE BLUE PLANET

rbr-global.com

RBR*duet*³ T.D

SMALL TWO-CHANNEL LOGGER

COMPACT, ACCURATE, DEPENDABLE

The RBR*duet*³ T.D is a compact, lightweight, and versatile dual-channel instrument. It provides accurate temperature and pressure measurements during long deployments. Low power consumption, large memory, and ability to endure harsh conditions make it a perfect instrument for many oceanographic applications, including tide levels and wave characteristics.

FEATURES

- Compact and lightweight
- Long deployments
- Depths up to 1000m
- Up to 32Hz sampling
- USB-C download
- Cabled RBR*coda*³ variant available

The following configurations are available:

- RBR*duet*³ T.D — temperature and depth; up to 2Hz continuous sampling
- RBR*duet*³ T.D|fast — temperature and depth; up to 8Hz, 16Hz, or 32Hz continuous sampling
- RBR*duet*³ T.D|tide16 — temperature and depth; continuous sampling or tidal averaging
- RBR*duet*³ T.D|wave16 — temperature and depth; continuous sampling, tidal averaging, or wave burst

The RBR*duet*³ T.D facilitates optimal measurement schedules, whether moored, towed, or profiling. Large storage capacity and reliable battery power facilitate long self-contained deployments with higher sampling rates. Downloads are quick with USB-C. A dedicated holder makes it simple to replace desiccant before each deployment. The calibration coefficients are stored with the instrument, and only one software tool, Ruskin, is required to operate it. Datasets can be read directly in Matlab, or exported to Excel, OceanDataView®, or text files.

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Specifications

Physical

Storage	~45 million samples*
Power	Any AA battery
Communication	USB-C
Clock drift	±60 seconds per year
Diameter	~25mm
Length	~266mm
Weight	150g in air, 30g in water

*A sample may include multiple readings.

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

* A wider temperature range is available upon request. Contact RBR for more information.

Pressure

Range	20 / 50 / 100 / 200 / 500 / 1000dbar*
Accuracy	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.05% full scale / year
Time constant	<10ms

*Recommended depth for wave measurements is less than 50m.

Deployment estimates

RBR*duet*³ T.D

Sampling rates	24hr to 1s, and 2Hz		
Autonomy	Speed	Time	# samples
	5s	4 years	~25 million
	2Hz	60 days	~10 million

RBR*duet*³ T.D|fast16

Sampling rates	24hr to 1s, and 2Hz, 4Hz, 8Hz, 16Hz		
Autonomy	Speed	Time	# samples
	16Hz	30 days	~45 million

RBR*duet*³ T.D|fast32

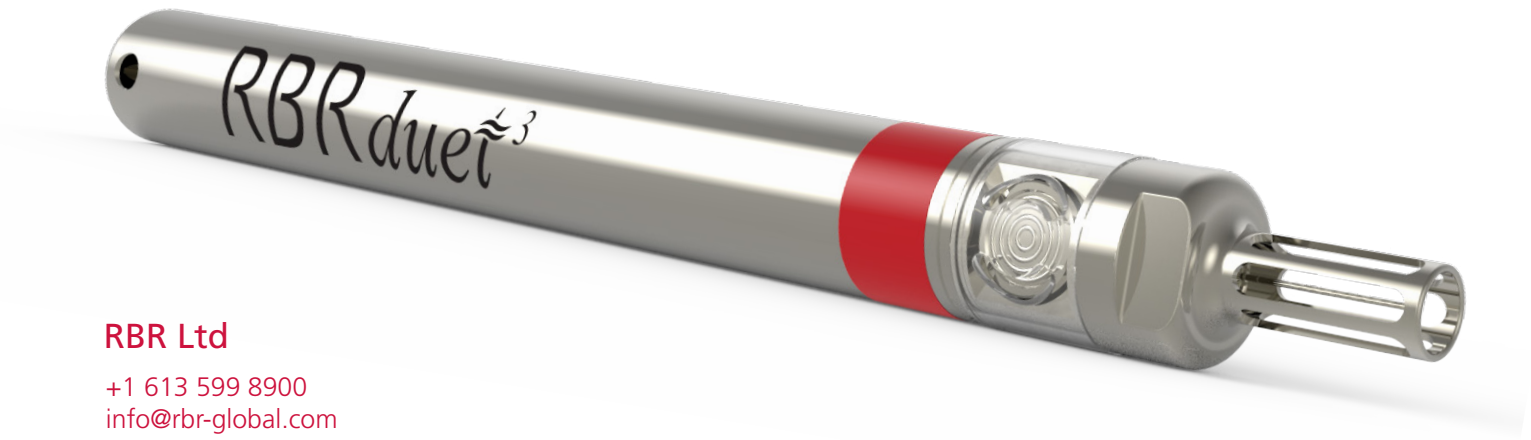
Sampling rates	24hr to 1s, and 2Hz, 4Hz, 8Hz, 16Hz, or 32Hz		
Autonomy	Speed	Time	# samples
	32Hz	16 days	~45 million

Realtime variants

Cabled realtime variants are available as the RBR*coda*³ T.D.

Deep variant

Explore up to 10km deep with the RBR*duet*³ T.D|deep.



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