RBR

MEASURE THE BLUE PLANET

rbr-global.com

SMALL TWO CHANNEL RECORDER

TEMPERATURE & DEPTH

The RBR*duet*³ T.D is RBR's accurate, small, and versatile dual channel temperature and depth recorder. The standard temperature and depth logger samples up to 2Hz, and optionally up to 32Hz. Tide and wave versions are available. The loggers are designed with large memory for extended deployments, and USB-C download for large data files.

FEATURES

- Compact and lightweight
- Depths up to 1000m
- 20M measurements
- Up to 32Hz sampling
- USB-C download
- Cabled RBR*coda*³ variant available

The RBR*duet*³ T.D recorder is available in the following configurations:

- RBR*duet*³ T.D — temperature and depth, up to 2Hz continuous sampling
- RBR*duet*³ T.D|fast16 — temperature and depth, up to 16Hz continuous sampling
- RBR*duet*³ T.D|fast32 — temperature and depth, up to 32Hz continuous sampling

For information on RBR's tide and wave recorders, please refer to the RBR*solo*³ / RBR*duet*³ datasheet.

The RBR*duet*³ T.D series has two channels: temperature and pressure. Its large data storage capacity is matched to high battery capacity to facilitate long deployments with higher sampling rates. Downloads are quick with USB-C. A dedicated desiccant holder makes it simple to replace desiccant before each deployment.

The calibration coefficients are stored with the logger and only one software tool, Ruskin, is required to operate the loggers. Datasets can be read directly in Matlab, or exported to Excel or ASCII files.

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RBR*duet*³ T.D

SMALL TWO CHANNEL RECORDER

TEMPERATURE, DEPTH, TIDES AND WAVES

- Compact and lightweight
- Depths up to 1000m
- Over 20M measurements
- Up to 32Hz sampling
- USB-C download
- Cabled RBR*coda*³ variant available

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Specifications

Physical

Power:	Any AA cell
Communication:	USB-C
Clock drift:	±60 seconds/year
Diameter:	25.4mm
Length:	265mm
Weight (air):	136g (OSP)
Weight (water):	<10g (OSP)

Temperature

Range:	-5°C to 35°C
Accuracy:	±0.002°C
Resolution:	<0.00005°C
Time Constant:	~1s (standard) or~0.1s (|fast16)
Typical stability:	0.002°C/year

Depth

Range (OSP):	20 / 50 / 200 / 500 / 1000m
Accuracy:	±0.05% full scale
Resolution:	<0.001% full scale
Time constant:	<10ms
Typical stability:	~0.1%/year

Sampling rates and Autonomy

RBR*duet*³ T.D

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

RBR*duet*³ T.D|fast16

Sampling rate:	24hr to 1s, and 2Hz, 4, 8, and 16Hz		
Autonomy:	Rate	Duration	# samples
	16Hz	50 days	40M

RBR*duet*³ T.D|fast32

Sampling rate:	24hr to 1s, and 2Hz, 4, 8, 16, and 32Hz		
Autonomy:	Rate	Duration	# samples
	32Hz	25 days	40M

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