

## SMALL TIDE AND WAVE LOGGERS



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The RBRsolo<sup>3</sup> D and RBRduet<sup>3</sup> T.D, |tide and |wave, are compact and lightweight instruments. By taking averages of pressure readings over extended periods of time, they provide accurate tide level data. Intermittent and continuous wave bursts allow for obtaining wave characteristics (wave energy,  $H_{1/3}$ ,  $T_{1/3}$ ,  $T_{ave}$ ,  $H_{ave}$ ) and detecting infrequent phenomena, like boat wakes.

### FEATURES

					
Flexible tide averaging	Low frequency wave detection	Intermittent & continuous burst	16Hz sampling	USB-C download	Cabled RBRcoda <sup>3</sup> variant available

The following configurations are available:

- ▶ RBRsolo<sup>3</sup> D|tide16      pressure, tidal averaging
- ▶ RBRsolo<sup>3</sup> D|wave16      pressure, tidal averaging, intermittent and continuous wave burst
- ▶ RBRduet<sup>3</sup> T.D|tide16      temperature and pressure, tidal averaging
- ▶ RBRduet<sup>3</sup> T.D|wave16      temperature and pressure, tidal averaging, intermittent and continuous wave burst

The RBRsolo<sup>3</sup> D and RBRduet<sup>3</sup> T.D, |tide and |wave, facilitate optimal measurement schedules. Large storage capacity and reliable battery power facilitate long 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	~65 million samples* (RBRsolo <sup>3</sup> D) ~45 million samples* (RBRduet <sup>3</sup> T.D)
Power	Any AA battery
Communication	USB-C
Clock drift	±60 seconds per year
Diameter	~25mm
Length	211mm (RBRsolo <sup>3</sup> D) 266mm (RBRduet <sup>3</sup> T.D)
Weight	<150g in air, <30g in water

\*A sample may include multiple readings.

##### Pressure

Range*	20 / 50 / 100 / 200 / 500 / 1000dbar
Initial 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.

##### 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.

#### Realtime variants

Cabled realtime variants of RBRsolo<sup>3</sup> D|tide and RBRduet<sup>3</sup> T.D |tide are available as the RBRcoda<sup>3</sup>.

#### Deployment configurations

##### RBRsolo<sup>3</sup> D|tide16, RBRduet<sup>3</sup> T.D|tide16

Sampling rate	24h to 2Hz (continuous mode) 1, 2, 4, 8, or 16Hz (tide mode)
Averaging duration	1s to 24h
Averaging interval	1s to 24h

##### RBRsolo<sup>3</sup> D|wave16, RBRduet<sup>3</sup> T.D|wave16

Sampling rate	24h to 1s and 2, 4, 8, or 16Hz (continuous, tide, and wave modes)
Burst (samples)	512 to 32768 (powers of 2)
Burst interval	1s to 24h



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