

## SMALL TIDE AND WAVE LOGGERS



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The RBRsolo<sup>4</sup> and RBRduet<sup>4</sup> |tide32 and |wave32, 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	32Hz sampling	USB-C download	Infinite memory*

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

### Available configurations

- ▶ |tide32 tidal averaging
- ▶ |wave32 tidal averaging, intermittent and continuous wave burst

### Variants

- ▶ |2x double the autonomy of RBRsolo<sup>4</sup> and RBRduet<sup>4</sup>

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The RBRsolo<sup>4</sup> and RBRduet<sup>4</sup> |tide32 and |wave32 are built for long, accurate field use with low effort. Delivering high 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, these loggers are 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 tool-boxes, 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

### Deployment configurations

#### Physical

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

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

#### RBRsolo<sup>4</sup>|tide32, RBRduet<sup>4</sup> |tide32

Sampling rate	24h to 2Hz (continuous mode) 1, 2, 4, 8, 16, or 32Hz (tide mode)
Averaging duration	1s to 24h
Averaging interval	1s to 24h

#### RBRsolo<sup>4</sup>|wave32, RBRduet<sup>4</sup>|wave32

Sampling rate	24h to 1s and 2, 4, 8, 16, or 32Hz continuous, tide, and wave modes)
Burst (samples)	512 to 32768 (powers of 2)
Burst interval	1s to 24hr

#### Pressure

Range <sup>1</sup>	20 / 100 / 300 / 1000dbar
Accuracy <sup>2</sup>	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.05% full scale / year
Time constant	<10ms

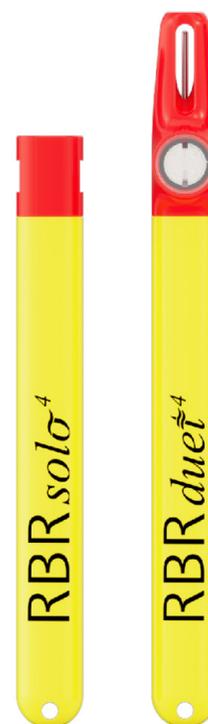
<sup>1</sup>Recommended depth for wave measurements is less than 100m.

<sup>2</sup>±0.01% full scale available is available upon request.

#### 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.



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