

## SMALL TIDE AND WAVE LOGGERS

MEASURE MORE,  
DEPLOY LONGER,  
DOWNLOAD FASTER



The RBRsolo<sup>3</sup> is RBR's most compact, lightweight, and versatile single channel logger. RBRsolo<sup>3</sup> D|tide16 & RBRsolo<sup>3</sup> D|wave16 loggers offer flexible measurement schedules, long wave burst samples, expanded memory and power for extended deployments and faster download of large data files.

### FEATURES

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

Small tide and wave loggers are available in the following configurations:

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

The single channel tide and wave loggers provide the ease and flexibility to establish the best sampling regime for your measurements. Both loggers take averages of the pressure readings over longer periods of time and at rates up to 16Hz to provide accurate tide level readings. The wave recorder bursts continuously or intermittently making it easier to measure infrequent phenomena such as boat wakes. The large number of burst samples makes low frequency waves easier to detect. A dedicated desiccant holder makes it simple to replace desiccant before each deployment.

Dataset export to Matlab, Excel, OceanDataView®, or text files makes post processing with your own algorithms effortless. The included Ruskin software performs wave analysis, to provide basic information about the wave composition (e.g. wave energy,  $H_{1/3}$ ,  $T_{1/3}$ ,  $T_{ave}$  and  $H_{ave}$ ).

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Flexible tide averaging



Low frequency wave detection



16Hz sampling



USB-C



Intermittent and continuous burst ability



Cabled RBRcoda<sup>3</sup> variant available



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### Specifications

#### Physical

Power:	Any AA battery
Communication:	USB-C
Clock drift:	±60 seconds/year
Diameter:	25.4mm
Length:	210mm
Weight(air):	125g
Storage:	~60M readings

#### Pressure

Range (OSP):	20 / 50 / 200 / 500 / 1000m*
Accuracy:	±0.05% FS (full scale)
Resolution:	0.001% FS
Time constant:	<0.01
Typical stability:	0.05% FS

\*Recommended depth for wave measurements less than 50m

#### RBRsolo<sup>3</sup> D|tide16

Sampling rate:	24hr 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

Sampling rate:	24hr 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 24hr

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

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

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

Sampling rate:	24hr 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 24hr

#### Realtime variant

Cabled realtime variant available as the RBRcoda<sup>3</sup>.

#### Deep variant

Explore up to 10km deep with the RBRsolo<sup>3</sup> T|deep. Details available on the RBRsolo<sup>3</sup> and RBRduet<sup>3</sup>|deep datasheet.