

# TIDE & WAVE LOGGERS

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DEPLOY LONGER,  
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FASTER



RBR tide and wave loggers offer flexible measurement schedules, long wave burst samples, expanded memory and power for extended deployments, twist activation, and faster download of large data files.

## FEATURES



Tide and wave loggers are available in the following configurations:

▶ RBRvirtuoso <sup>3</sup> D   tide16	pressure logger with tidal averaging
▶ RBRvirtuoso <sup>3</sup> D   wave16	pressure logger with intermittent and continuous wave burst and tidal averaging
▶ RBRduo <sup>3</sup> T.D   tide16	pressure and temperature logger with tidal averaging
▶ RBRduo <sup>3</sup> T.D   wave16	pressure and temperature logger with intermittent and continuous wave burst and tidal averaging

The tide and wave loggers provide the ease and flexibility to establish the best sampling regime for your measurements. Both instruments 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 logger bursts continuously or intermittently making it easier to measure boat wakes or other infrequent phenomena. The large number of burst samples makes low frequency waves easier to detect, while the fast sampling resolves high frequency waves. Dataset export to Matlab, Excel, Ocean DataView®, 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  $H_{ave}$ ). Like all RBR products, the RBR wave and tide loggers are designed to be easy to configure.

## TIDE AND WAVE LOGGERS

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Flexible tide averaging



Low frequency wave detection



120M measurements



USB-C download



Intermittent and continuous burst ability



Up to 16Hz sampling

RBRduo<sup>3</sup> / RBRvirtuoso<sup>3</sup>

### Specifications

#### Physical

Storage:	120M readings
Power:	8 AA cells
Communication:	USB-C, and RS-232/485
Clock drift:	±60 seconds/year
Size:	~260mm x Ø63.3mm
Weight:	960g in air, 430g in water
Housing:	Plastic

#### Temperature

Range:	-5°C to 35°C
Initial accuracy:	±0.002°C
Resolution:	0.00005°C
Time constant:	~1s (standard) or 0.1s (option)
Drift:	~0.002°C per year

#### Pressure

Range:	20/50
Accuracy:	±0.05% FS (full scale)
Resolution:	0.001% FS
Time constant:	0.01s
Typical stability:	0.05% FS

#### Tide

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

#### Waves

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

### Options

- Wi-Fi communication
- External data and power connector with USB, RS-232, or RS-485



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