

Tide and Wave Recorders

Measure more, deploy longer, download faster

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

Features

- 6Hz sampling
- 30M measurements
- Flexible tide averaging
- Fast USB download speed
- Low frequency wave detection
- Intermittent and continuous burst ability



Configurations:

RBRvirtuoso D tide	pressure recorder with tidal averaging
RBRduo T.D tide	pressure and temperature recorder with tidal averaging
RBRvirtuoso D wave	pressure recorder with intermittent and continuous wave burst and tidal averaging
RBRduo T.D wave	pressure and temperature recorder with intermittent and continuous wave burst and tidal averaging

The tide and wave recorders 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 6Hz to provide accurate tide level readings. The wave recorder 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. Wave data exports to Matlab®, Excel® or text files make post processing with your own algorithms simple. Ruskin 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 and easy to use.



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Specifications

Physical

Power:	8 or 16 3V CR123A cells
Communication:	True USB and RS-232/485
Storage:	~30M readings
Clock accuracy:	± 60 seconds/year
Size:	~260 or 395mm x Ø63.5mm
Weight:	960g in air, 430g in water
Housing:	Plastic

Tide

Averaging rate:	>1s, 1 to 6Hz
Averaging duration:	1s to 24h
Sampling period:	1s up to 24h

Waves

Burst rate:	>1s, 1 to 6Hz
Samples per burst:	512 to 32768

Pressure

Range:	20/50m (dBar)
Accuracy:	±0.05% full scale
Resolution:	<0.001% full scale
Time Constant:	<10ms
Drift:	~0.1%/year

Temperature

Range:	-5°C to 35°C
Accuracy:	±0.002°C
Resolution:	<0.00005°C
Time Constant:	~1s (~0.1s option available)
Drift:	~0.002°C/year

