



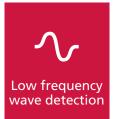
# **TIDE & WAVE LOGGERS**



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:

- ► RBR*virtuoso³* D|tide16
- ► RBRduo³ T.D|tide16
- ► RBR*virtuoso³* D|wave16
- ► RBRduo³ T.D|wave16

pressure logger with tidal averaging pressure and temperature logger with tidal averaging pressure logger with intermittent and continuous wave burst and tidal averaging 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, 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<sub>1/3</sub>, T<sub>1/3</sub>T<sub>ave</sub> and H<sub>ave</sub>). Like all RBR products, the RBR wave and tide loggers are designed to be easy to configure.



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

# TIDE AND WAVE LOGGERS

# MEASURE MORE, DEPLOY LONGER, DOWNLOAD FASTER



Flexible tide averaging



Low frequency wave detection



120M measurements



USB-C download



Intermittent and continuous burst ability



Up to 16Hz sampling

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# **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:  $-5^{\circ}\text{C}$  to  $35^{\circ}\text{C}$  Initial accuracy:  $\pm 0.002^{\circ}\text{C}$  Resolution:  $0.00005^{\circ}\text{C}$ 

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%/year

#### Tide

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

#### Waves

Samples per burst: 512 to 32768 (powers of 2)
Burst rate: >1s, 1 to 6Hz

# **Options**

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

