

RBRvirtuoso³, RBRduo³, |tide and |wave

TIDE AND WAVE LOGGERS

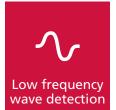
MEASURE MORE, DEPLOY LONGER, DOWNLOAD FASTER



The RBR*virtuoso*³ D and RBR*duo*³ T.D, | tide and | wave, offer high accuracy and flexible schedules. 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, $H_{1/3}$, $T_{1/3}$, $T_{1/$

FEATURES













The following configurations are available:

► RBR*virtuoso³* D|tide16

pressure, tidal averaging

► RBR*virtuoso*³ D|wave16

pressure, tidal averaging, intermittent and continuous wave burst

► RBR*duo³* T.D|tide16

temperature and pressure, tidal averaging

► RBR*duo*³ T.D|wave16

temperature and pressure, tidal averaging, intermittent and continuous wave burst

The RBRvirtuoso³ D and RBRduo³ T.D,|tide and |wave, facilitate optimal measurement schedules. Large storage capacity and reliable battery power facilitate long deployments with higher sampling rates. Downloads are quick with USB-C. A dedicated holder makes it simple to replace desiccant before each deployment. The calibration coefficients are stored with the instrument, and only one software tool, Ruskin, is required to operate it. Datasets can be read directly in Matlab, or exported to Excel, OceanDataView®, or text files.



RBRvirtuoso³, RBRduo³, |tide and |wave

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Specifications

Physical

Storage 240M readings*
Power 8 AA cells
External power 4.5 to 30V

Communication USB-C or RS-232/485
Clock drift ±60 seconds/year

Housing Plastic
Diameter 63.3mm

Length 338mm (RBR*virtuoso³* D) 368mm (RBR*duo³* T.D)

Weight ~1kg in air, ~0.1kg in water

Max depth rating 1000m

Pressure

Range* 20 / 50 / 100 / 200 / 500 / 1000dbar Initial accuracy ±0.05% full scale <0.001% full scale

Typical stability ±0.05% full scale / year <10ms

Temperature

Deployment configurations

RBRvirtuoso³ D|tide16, RBRduo³ T.D|tide16

Sampling rate

24h to 2Hz (continuous mode)
1, 2, 4, 8, or 16Hz (tide mode)
1s to 24h
1s to 24h

RBRvirtuoso³ D|wave16, RBRduo³ T.D|wave16

| Sampling rate | 24h 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 connection via connectorised end-caps



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^{*}A sample may include multiple readings.

^{*}Recommended depth for wave measurements is less than 50m.

^{*} A wider temperature range is available upon request. Contact RBR for more information.