







## EXPANDED LOGGER

MEASURE MORE,  
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The RBRduraturo<sup>4</sup> delivers high-accuracy measurements with flexible sampling schedules and a significantly extended battery life. Sampling rates of up to 32Hz support data-intensive acquisition of raw temperature and/or pressure. By averaging pressure measurements over extended intervals, the instrument provides precise tide-level data. Configurable intermittent and continuous wave-burst sampling enables the characterization of wave conditions—including wave energy,  $H_{1/3}$ ,  $T_{1/3}$ ,  $T_{ave}$ ,  $H_{ave}$  to support the detection of infrequent events such as vessel wakes.

### FEATURES

 <p>Flexible tide averaging</p>	 <p>Low frequency wave detection</p>	 <p>Twist activation</p>	 <p>Infinite memory*</p>	 <p>Up to 32Hz sampling</p>	 <p>Extended battery capacity</p>
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\* not really, but we stopped counting at billions of samples.

### Available configurations

- ▶ RBRduraturo<sup>4</sup> T.D temperature and pressure; up to 2Hz continuous sampling
- ▶ RBRduraturo<sup>4</sup> T.D|fast temperature and pressure; up to 32Hz continuous sampling
- ▶ RBRduraturo<sup>4</sup> T.D|tide32 temperature and pressure; continuous sampling or tidal averaging
- ▶ RBRduraturo<sup>4</sup> T.D|wave32 temperature and pressure; continuous sampling, tidal averaging, or wave burst

The RBRduraturo<sup>4</sup>, facilitates optimal measurement schedules. Large storage capacity and reliable battery power enable 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.

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### Specifications

#### Physical

Storage	Infinite memory*
Power	6 D cells
Communication	USB-C
Clock drift	±60 seconds/year
Housing	Plastic
Diameter	100mm
Length	246mm
Weight	2.4kg
Depth rating	300dbar
Sampling rate	2Hz; options up to 32Hz
Operating temperature	-5° to 35°
Storage temperature	-20° to 50°

\* not really, but we stopped counting at billions of samples.

#### Pressure

Range <sup>1</sup>	20 / 100 / 300dbar
Initial accuracy <sup>2</sup>	±0.01% full scale
Resolution	<0.001% full scale
Typical stability	±0.01% full scale per year
Time constant	<10ms

<sup>1</sup> Recommended depth for wave measurements is less than 100m.

<sup>2</sup> The 20m sensor is limited to ±0.05% FS due to its physical construction.

#### Temperature

Range*	-5°C to 35°C
Initial accuracy	±0.002°C
Resolution	<0.00005°C
Typical stability	±0.002°C / year
Time constant	<0.1s   fast, <1s standard, <60s   slow

\* A wider temperature range is available upon request.

### Deployment configurations

#### RBRduraturo<sup>4</sup> T.D|tide32

Sampling rate	24h to 2Hz (continuous mode) 1, 2, 4, 8, 16 or 32Hz (tide mode)
Averaging duration	1s to 24h
Averaging interval	1s to 24h

#### RBRduraturo<sup>4</sup> T.D|wave32

Sampling rate	24h to 1s and 2, 4, 8, 16 or 32Hz continuous, tide, and wave modes)
Burst (samples)	512 to 32768 (powers of 2)
Burst interval	1s to 24hr



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