

# ALTITUDE, TILT, & WAVE LOGGER



TOTAL  
WATER DEPTH  
INSTRUMENT

The RBR*concerto*<sup>3</sup> D.alt.tilt is a unique data logger dedicated to total water depth. Equipped with a 3-axis tilt sensor and a 200kHz altimeter, the logger provides complete distance-to-surface and distance-to-bottom data. The instrument also includes a depth channel capable of both continuous and intermittent bursts. The RBR*concerto*<sup>3</sup> D.alt.tilt is available in a configuration that supports wave measurements up to 16Hz.

## FEATURES



The following standard configurations are available:

- ▶ RBR*concerto*<sup>3</sup> D.alt.tilt      pressure, 3-axis tilt, altimeter
- ▶ RBR*concerto*<sup>3</sup> D.alt.tilt|wave16      adds 16Hz wave measurements

The RBR*concerto*<sup>3</sup> D.alt.tilt makes it simple to configure the optimum sampling regime for your measurements. The large data storage capacity and fast download ability facilitate long deployments with higher sampling rates. The logger is available in a standard body or extended body with additional power for prolonged use. Dataset export to Matlab, Excel, OceanDataView®, or text files makes post processing with your own algorithms effortless.

# ALTITUDE, ATTITUDE, AND WAVE LOGGERS

## TOTAL WATER LEVEL INSTRUMENT

### Specifications

#### Physical

Storage:	240M readings
Power:	8 AA cells
Communication:	USB-C or RS-232/485
Clock drift:	±60 seconds/year
Size:	346mm x Ø63.3mm (concerto) 250mm x Ø25.4mm (solo)
Weight:	~1.4kg in air, 250g in water
Depth rating:	750m
Sampling period:	1s to 24h
Wave option:	wave 1 – 6Hz, 12Hz, 16Hz
Housing:	Plastic

#### Altitude

Range:	0.5 to 10m
Initial accuracy:	±0.01m
Frequency:	2MHz
Beamwidth:	~15°

#### Attitude

Accuracy:	±0.1°
Tilt:	3-Axis

#### Depth

Range:	20 / 50 / 100 / 200 / 500 / 750 dbar
Initial accuracy:	±0.05% FS (1cm)
Resolution:	0.001% FS
Time constant:	<0.01s
Typical stability:	0.1% FS per year

### Options

- ▶ Wi-Fi communication
- ▶ Twist activation
- ▶ External data and power connector

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