

Altitude, Attitude, and Wave Logger

Total water depth instrument

The RBR*concerto* D.alt.att is a unique data logger dedicated to total water depth. Equipped with 3-axis tilt sensor, altimeter, and compass, the logger provides fast, accurate data. The instrument also includes a depth channel capable of both continuous and intermittent bursts. The RBR*concerto* D.alt.att is available in a configuration that supports wave measurements up to 12 Hz.

Features

- Rugged and compact
- Long deployments
- USB 2.0 download
- Up to 12Hz sampling
- Up to 120M readings
- Realtime communication options



The following standard configurations are available:

RBR*concerto* D.alt.att pressure, 3-axis tilt, 3-axis compass, altimeter

RBR*concerto* D.alt.att|wave adds 12Hz wave measurements

The RBR*concerto* D.alt.att 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. Intuitive software facilitates dataset export to Matlab®, Excel®, OceanDataView® or text files make post processing with your own algorithms effortless.

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Specifications

Physical

Power:	8 or 16 3V CR123A cells
Communication:	USB 2.0 or RS-232/485
Storage:	~30M readings
Clock accuracy:	± 60 seconds per year
Depth rating:	740m
Size:	346mm x Ø63.3mm (concerto) 250mm x Ø25.4mm (solo)
Weight:	~1.4kg in air, 250g in water
Sampling period:	1s to 24h
Wave option:	wave 1 – 6Hz, 12Hz
Housing:	Plastic

Altitude

Range:	0.5 to 10m
Initial accuracy:	±0.01m depending on estimate of average speed of sound
Frequency:	200kHz
Beamwidth:	~15°

Attitude

Tilt:	3-Axis
Accuracy:	±0.1°
Compass:	3-Axis

Pressure (Depth)

Range:	20 dbar
Initial accuracy:	±0.05% FS (1cm)
Resolution:	0.001% FS or 0.001 dbar w.i.g.
Typical stability:	0.1% FS per year
Time constant:	<0.01s

Options

- WiFi communication
- Twist activation
- Extended body, 8 additional batteries
- External data and power connector
- Extended memory: 60M or 120M readings