Tide & Wave Recorders

RBR offers instruments to measure tides and waves by pressure or a direct capacitive sensor. If pressure is measured, the electronics package may be mounted on the sea floor or at the surface. A capacitive sensor may be provided with a USB interface.

Sea Bed Recorders

Models TGR-1050P, TGR-2050P and TWR-2050 are autonomous instruments which are intended to be mounted on the sea bed. They will record to internal memory for periods of up to two years, and contain 8Mbytes of flash memory. Temperature is measured in the 2050 models.

Surface Recorders

Both the TGR and TWR are available in a surface version - models TGR-1050HT and TWR-2050HT. Pressure only is measured on the sea bed using a vented transducer for automatic atmospheric compensation.

The instruments have a NEMA4X case and full functionality for use with RF or cellular (CDMA or GSM) modem. They may also be connected via RS-232 or RS-485 direct communications. These units can run for five years on internal batteries.

Software

Ruskin software is available at no additional charge for all of our instruments. Go to our website for details, downloads and upgrades.

Sea Bed Recorders

Power:	QTY 2, 3V CR123A cells
Communications:	RS-232/485 or telemetry option
Download speed:	~115,000 samples/minute
Clock accuracy:	± 32 seconds/year
Size:	265mm x 38mm diameter
Memory:	8Mbyte Flash
Weight:	364g in air, 70g in water

Depth	Temperature
Range: 10/20/50/100m (dBar)	Range: -5 °C to 35 °C
Accuracy: ± 0.05% full scale	Accuracy: ± 0.002 °C
Resolution: <0.001% full scale	Resolution: <0.00005 °C
Time Constant: < 10 msec	Time Constant: < 3 sec
Drift ~0.1%/year - typical	Drift: ~0.002 °C/year - typical

Averaging period:	1 sec to 8 hours
Bursts (wave recorder)	512, 1024, 2048, 4096 samples
Burst sampling rate	1, 2, or 4 Hz

Surface Recorders

Specifications similar to those above, with the following changes:

Power:	QTY 8, C size alkaline cells / 12V ext.
Communications:	RS-232/485 or modems
Size:	255x205x120mm
Weight:	<5kg (excluding sensor and cable)
Pressure Sensor:	Druck PDCR 1830
Range:	10 dBar; 15 or 25m cable

Other ranges and sizes to special order

Accuracy:	±0.05% full scale

Ordering Information

TGR-1050P	Specify depth range
TGR-2050P	Specify depth range
TWR-2050P	Specify depth range
TGR-1050HT	Specify sensor cable length
TWR-2050HT	Specify sensor cable length

For further information on sensor performance please consult RBR.

RBR Ltd.
27 Monk Street, Ottawa, ON Canada K1S 3Y7
Tel: +1 613 233-1621 Fax: +1 613 233-4100
info@rbr-global.com www.rbr-global.com

RBR Europe Ltd.
17 Cratlands Close, Stadhampton,
Oxfordshire, OX44 7TU United Kingdom
Tel/Fax: +44 (0)1865 890979
info@rbr-europe.com www.rbr-europe.com

Your Path Through the Sea

MARINE | FRESHWATER | CRYOSPHERIC

Ruskin RBR Software

For all RBR instruments

RUSKIN

Made to make measurement simple.

Ruskin is a multi-platform instrument configuration and analysis software package from RBR. The new graphical user interface is designed for optimal use while providing all the necessary features for instrument configuration, data retrieval and analysis.

Features:

- Automatic instrument detection
- Automatic software update
- Deployment simulation
- Multi-lingual
- PC or Mac compatible
- Multiple logger configuration cloning
- Data export to Matlab, Excel and ASCII

Derived Channels:

- salinity
- depth
- speed of sound
- density
- density anomaly
- dissolved oxygen concentration
- specific conductivity

Overview

Ruskin runs on a PC or a Mac in your native language: Chinese, English, French, Spanish, Polish – or your request. Ruskin is web enabled and informs you when updates are available. Ruskin always has the latest features. Furthermore you can comment on Ruskin capabilities and suggest improvements with a couple of mouse clicks.

Deployment

Ruskin automatically detects instrument connections and displays the instrument configuration. Ruskin allows you to optimize the sample rate for the deployment time or to optimize the sample rate to maximize the deployment duration. Ruskin can simulate any RBR instruments to confirm deployment details. Multiple instruments may be connected at one time and Ruskin can clone the deployment settings.

Download

Data are downloaded in the background from one or more instruments. Each instrument's data may be exported as Matlab®, Excel® or as raw or engineering valued text files. Numerous derived channels are available.

Tide and wave data include: mean level, tidal slope, significant wave height, mean period, significant wave period and total energy.

Display

The display easily allows you to view all the sensors connected to the instrument along with the instrument identifiers, the deployment schedule, memory and battery use, and the calibration coefficients for each sensor. You can quickly switch between data sets and analyze and compare data. Single data point values, average values and standard deviation are reported. Pan and zoom is available to display fine features of the dataset. Plots are exported as PNG or PDF.

Download a copy today: www.rbr-global.com

Windows Mac Universal

RBR Ltd.
27 Monk Street, Ottawa, ON Canada K1S 3Y7
Tel: +1 613 233-1621 Fax: +1 613 233-4100
info@rbr-global.com www.rbr-global.com

RBR Europe Ltd.
17 Cratlands Close, Stadhampton,
Oxfordshire, OX44 7TU United Kingdom
Tel/Fax: +44 (0)1865 890979
info@rbr-europe.com www.rbr-europe.com

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