

TGR-2050

Submersible Tide Gauge



The TGR-2050 is a self-contained, submersible temperature and pressure logger, designed to monitor tide levels without interference from wave action. The TGR-2050 is very accurate and small (265mm x 38mm OD). It can be mounted on the sea or harbour floor, fastened to an existing structure, or attached to a mooring line.

Tide measurement is achieved by averaging pressure data, sampled at a rate of 4Hz, over a user-selectable period and interval.

Features:

- 4Hz burst sampling
- Fully Programmable
- 8MB Memory (2,400,000 samples)
- High-speed download
- Telemetry ready
- NIST Traceable calibration

The temperature channel of the TGR-2050 is calibrated to an accuracy of $\pm 0.002^{\circ}\text{C}$ (ITS-90). The depth channel is calibrated to an accuracy of $\pm 0.05\%$ Full scale. Calibration constants are stored in the logger and recalibration is possible by the end-user under suitable conditions.

For more details, please visit our website: www.rbr-global.com

Technical

Power:	QTY 2, 3V CR123A cells
Communications:	RS-232/485; logged, cable, or telemetry
Download Speed:	~115,000 samples/minute
Clock Accuracy:	± 32 seconds/year
Size:	265mm x 38mm
Memory:	8Mbyte Flash
Weight:	364g; 70g in water
Calibration:	NIST traceable standards

Temperature

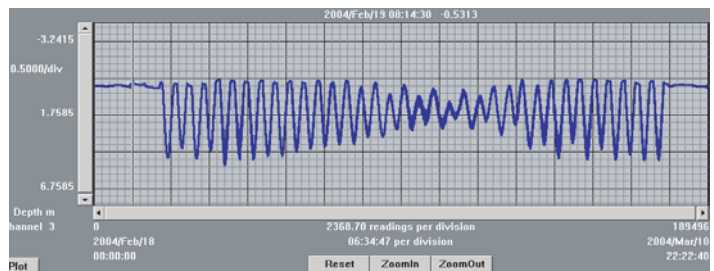
Range:	-5 $^{\circ}\text{C}$ to 35 $^{\circ}\text{C}$
Accuracy:	$\pm 0.002^{\circ}\text{C}$
Resolution:	$< 0.00005^{\circ}\text{C}$
Time Constant:	< 3 sec
Drift:	$< 0.002^{\circ}\text{C}/\text{year}$

Depth

Range:	10/25/60/100m (dBar)
Accuracy:	$\pm 0.05\%$ full scale
Resolution:	$< 0.001\%$ full scale
Time Constant:	< 10 msec

Software

The TGR-2050 uses integrated RBR Windows software. Please see the "RBR Logger Software" datasheet, or visit the RBR website (www.rbr-global.com) for more information.



RBR Ltd.

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

RBR Europe GmbH

Schultenstrasse 8, 59597 Erwitte, Germany
 ph: +49-2943-974270 fax: +49-2943-974276
info@rbr-europe.com www.rbr-europe.com