

THERMISTOR STRINGS

COORDINATED TEMPERATURE PROFILES,
LOGGED OR REALTIME



The RBR*concerto*³ Tx is a multi-node thermistor string offering flexible measurement schedules, sampling intervals as short as 3s, large memory, and optional realtime output. It also features ample power for extended deployments and USB-C download for large data sets. The RBR*concerto*³ Tx can be configured with 12 or 24 temperature nodes spaced to meet your custom measurement requirement over a maximum length of 400m.

FEATURES



240M
readings



12 or 24
thermistors



Long
deployments



USB-C
download



Up to 400m
in length

The RBR*concerto*³ Tx is designed to control and log an array of thermistor nodes on a long cable. The thermistor strings are made to order and may be up to 400m in length. The robust construction is designed for marine or freshwater applications, underground, or in concrete, permafrost, or ice. The thermistor strings may be used to a depth of 8000m and are calibrated to $\pm 0.005^{\circ}\text{C}$ against ITS-90 primary standards. The RBR*concerto*³ Tx is easy to configure for the optimum sampling regime for your measurements. The large data storage capacity and fast download ability facilitate long deployments with higher sampling rates. For deep water applications the RBR*concerto*³ Tx is available in a titanium housing. Dataset export to Matlab, Excel, OceanDataView[®], or text files makes post processing with your own algorithms effortless.

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MEASURE MORE, DEPLOY LONGER, DOWNLOAD FASTER



240M readings



12 or 24 thermistors



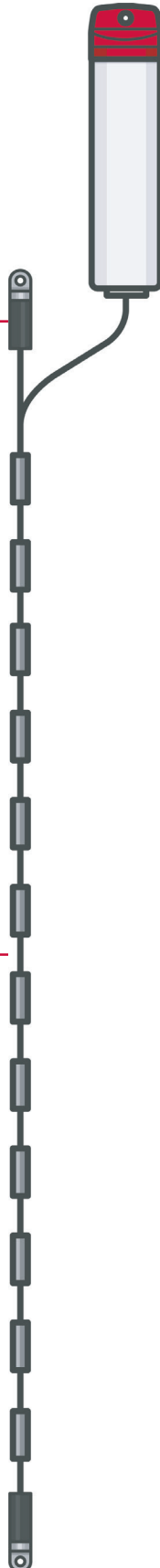
Long deployments



Up to 400m in length



USB-C download



Specifications

Physical

Power:	8 AA cells
Communication:	USB-C or RS-232/485
Storage:	240M readings
Clock drift:	±60 seconds per year
Depth rating:	750m (plastic) 8000m (titanium)
Size:	~355mm x Ø63.3mm/60.3mm (Ti)
Weight:	Configuration dependent
Sampling period:	3s to 24h
Averaging:	3s to 24h

Temperature

Range:	-5°C to 35°C
Initial accuracy:	±0.005°C
Resolution:	<0.00005°C
Time constant:	~30s
Typical stability:	~0.002°C per year

Configuration

Nodes:	12 or 24 node configuration
Length:	400m maximum
Load:	250kg maximum
Clevis pin:	12.7mm
Node diameter:	22mm
Cable diameter:	11.6mm
Node spacing:	150mm C-C minimum

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