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## Data Loggers DST Milli-T



### Features

#### **DST Milli-T - small implantable temperature logger**

- Biocompatible housing, ideal for implantation in animals for temperature monitoring
- Waterproof data logger up to 90 bar (900 m)
- Small dimensions 39.4 mm x 13 mm
- Large memory size of 87,000 measurements
- Long battery life, typically 5 years

The DST milli-T is a small waterproof temperature data logger. Recorded data is stored in the logger's internal memory with a real time reference for each measurement. The DST milli-T is supported by the Mercury softwares and the Communication Box (data reader) which serves as an interface between the logger and a PC. Communication between the logger and the Communication Box is wireless.

In the software, the user sets the start time, start date and sampling interval before starting the recorder. After the measuring period the recorded data is uploaded into a PC computer through the Communication Box. Results are displayed both in graphic and tabular form in the SeaStar software. After retrieving the data, the DST can be re-programmed and reused as long as the battery lasts. Battery life can be several years, depending on sampling interval and usage. Battery is not replaceable.

A set of Communication Box and Mercury software needs to be purchased with the first order.

DST milli-T, DST milli-TD and DST milli-L (with pressure sensor) are available with an extended memory capacity (FLASH) that can store up to 682,000 temperature measurements.

The DST Milli-T temperature logger is suitable for studies within e.g.:

- Animal temperature monitoring
- Study of thermoclines in water columns
- Hydrology
- Ecosystems research
- Temperature measurements in liquids, vials etc.
- Pharmaceutical research studies
- Temperature measurements in air or soil



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## Technical specifications

Sensors	Temperature
Size	39,4 mm x Ø 13 mm
Housing Material	Alumina (Ceramic)
Weight in air/in water	In Air: 9,2 gram / In water: 5 gram
Memory type	Non-volatile EEPROM
Memory capacity	87.000 measurements
Memory capacity bytes	130.750 Bytes / temp 1,5 byte
Memory management	Custom programming
Data resolution	12 bits
Temperature resolution	0,032°C
Temperature accuracy	+/- 0,1°C
Temperature range	5 to 45°C
Temperature response time	Time constant (63%) reached in 12sec
Data retention	25 years
Clock	Real time clock, accuracy +/- 1 min/month
Sampling Interval	User specified in seconds, minutes or hours
Number of different sampling intervals	1 to 7
Communications	Communication box, RS232C 9 pin serial or USB
Battery life	60 months - with a sampling interval of 10 min at room temp. Non-replaceable batteries



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