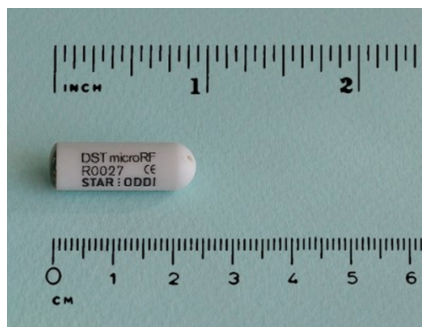




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Data Loggers DST Micro



Features

DST Micro - small implantable temperature logger

- Ideal for biomedical and animal welfare studies
- Reliable, constant and accurate measurements
- Simple to use and cost effective
- Multiple animals in a cage (biomedical studies)
- Biocompatible housing with dimensions 25.4 mm x 8.3 mm

DST micro-T is a very small thermo logger. It measures and records temperature automatically with a customer defined interval. Data from the temperature probe is stored in the logger's internal memory with a real-time clock reference for each measurement and is retrieved after the study using a Communication Box. The temperature monitor can store up to 43,000 temperature measurements and has a battery life of circa 18 months (with sampling interval of 10 min). DST micro-T logger is easy to sterilize (gas sterilizer or 70% ethanol) and can be reused as long as the battery lasts, which makes the loggers very cost efficient. Each DST micro-T has its own five digit serial number permanently marked on the logger housing as well as placed in the logger's memory and provided with all downloaded data. DST micro-T is especially useful when you wish to record a comprehensive data set throughout your research with no disturbance to the animal or subject. The DST micro-T is supported by the Mercury software and the Communication Box which serves as an interface between the logger and a PC computer. Communication between the logger and the Communication Box is wireless when logger is placed in the Communication Box.

In the software, the user programs the start time, start date and sampling interval before the logger is implanted/deployed. A single interval is defined in seconds, minutes and hours. Optionally up to seven different intervals can be used within the same measurement sequence. The user defines the number of measurements they wish to record with each set interval at one time and the order these intervals are repeated in. This is especially useful when more frequent or rare measurements are needed at certain time periods. After recovering the DST, recorded data is uploaded in the software where the results are displayed both in graphic and tabular form. The software also provides the user with some basic statistic information on the data such as minimum and maximum values on defined area, median, average, distribution of values etc. When recorded data has been retrieved, the DST can be re-programmed and reused as long as the battery lasts.

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



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

- Laboratory animal science (antiretroviral, virology, toxicology)
- Preclinical research, stability and safety studies
- Packaging and quality control of medicine
- Any use where small size and accurate temperature measurements are of importance

Technical specifications

Sensors	Temperature
Size	25,4 mm x Ø 8,3 mm
Housing Material	Alumina (Ceramic) and biocompatible epoxy
Weight in air/in water	In Air: 3,3 gram / In water: 1,9 gram
Memory type	Non-volatile EEPROM
Memory capacity	43.477 measurements
Memory capacity bytes	65,214 Bytes / temp 1,5 byte
Memory management	Custom programming
Data resolution	12 bits
Temperature resolution	0,032°C
Temperature accuracy	+/- 0,2°C
Temperature range	5 to 45°C
Temperature response time	Time constant (63%) reached in 8sec
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	Singel interval throughout the measuring period Or: Multiple intervals up to 7
Communications	Communication box, RS232C 9 pin serial or USB
Battery life	28 months - with a sampling interval of 10 min at room temp. Non-replaceable batteries



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Ordering number

180000092	Software Mercury vor DST T Micro Temp recorder for Windows
180000090	DST Micro T Temperature recorder



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