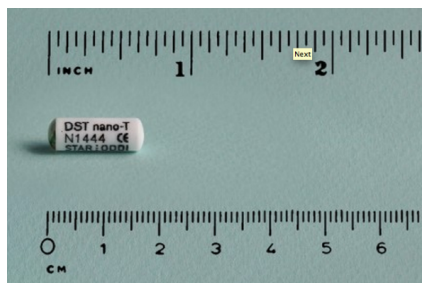




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Data Loggers DST Nano



Features

DST Nano- worldcode2utf('39',0)s smallest implantable temperature logger.

- Ideal for biomedical or animal welfare studies
- Constant and accurate temperature measurements
- Simple to use and cost effective
- Multiple animals in a cage (biomedical studies)
- Size only 17 mm x 6 mm, weighing only 1 g

The DST nano-T is the world's smallest temperature data logger. Recorded data is stored in the logger's internal memory with a real time clock reference for each measurement.

The DST nano-T is supported by the Mercury software and the Communication Box which serves as an interface between the logger and a PC. When logger is placed in the Communication Box the wireless communication between logger and box can be established. In the software, the user sets the start time, start date and sampling interval before starting the recorder. Up to seven different intervals can be set for the same measurement sequence. This is especially useful when more frequent measurements are needed at a certain time period. After recovering the DST, recorded data is uploaded in the supporting software where results are displayed both in graphic and tabular form. After retrieving the data, 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.

Examples of Application

DST nano-T was designed to be used as an implantable thermo logger for wild and captive animals. DST nano-T is made of biocompatible materials (alumina and biocompatible epoxy) and its size and shape are ideal for implantation in small animals. The logger can also be fitted in tight spaces, small packages or vials, for e.g. heat studies or temperature monitoring. With its waterproof housing and carefully chosen materials the DST nano-T can be used for collecting temperature data underwater or in other liquids (tolerates chemicals well).

The DST nano-T temperature logger is suitable for studies within:



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- Laboratory animal science
- Preclinical research, stability and toxicology studies
- Quality control (e.g. packaging)
- Tagging of small fish and animals
- Any use where ultra small and lightweight temperature recorder is required

Technical specifications

Sensors	Temperature
Size	17 mm x Ø 6 mm
Housing Material	Alumina and biocompatible epoxy
Weight in air/in water	1 gram
Memory type	Non-volatile EEPROM
Memory capacity	43.476 measurements
Memory capacity bytes	65,534 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 5sec
Data retention	10 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	14 months - with a sampling interval of 10 min at room temp. Non-replaceable batteries

Ordering number

180000093

DST nano-T temperature recorder



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