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## Data Loggers DST Centi



### Features

#### **DST Centi - miniature submersible temperature data logger**

- Self-contained temperature logger ideal for use in environmental temperature monitoring
- High pressure survival up to 3000 m depth
- Biocompatible housing suitable for implantation in animals
- Long battery life of 9 years
- Small sized logger with dimensions 46 mm x 15 mm
- Large memory of 174,000 measurements (can be extended)

The DST centi-T is a miniature submersible temperature data logger. Recorded data is stored in its internal memory with a real-time clock reference for each measurement.

The self-contained temperature logger is supported by the SeaStar software and the Communication Box which serves as an interface between the logger and a PC. Communication between the logger and the Communication Box is wireless.

In SeaStar, 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 via to SeaStar 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 SeaStar software needs to be purchased with the first order.

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

- Temperature fluctuations in animals
- Thermistor chain in water columns
- Temperature monitoring in oceans, rivers and lakes
- Agricultural research projectsAquaculture studies
- Aquaculture studies



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## Technical specifications

|                                        |                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Sensors                                | Temperature                                                                                |
| Size                                   | 46 mm x Ø 15 mm                                                                            |
| Housing Material                       | Alumina (Ceramic)                                                                          |
| Weight in air/in water                 | In Air: 19 gram / In water: 12 gram                                                        |
| Memory type                            | Non-volatile EEPROM                                                                        |
| Memory capacity                        | 174,000 measurements                                                                       |
| Memory capacity bytes                  | 261,819 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 20sec                                                       |
| 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                           | 108 months - with a sampling interval of 10 min at room temp.<br>Non-replaceable batteries |



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