PERSONAL SERVICE

Customers are Star-Oddi's best advisors. The Star-Oddi R&D department is constantly seeking new ways of optimization and products can be customized to fit individual requirements.

STAR-ODDI LTD.

Founded in Iceland in 1985, Star-Oddi has become recognized as one of the world's leading manufacturers of technology for research and industrial use.

Since 1993, Star-Oddi has been developing and manufacturing miniature data loggers with various sensors.

Star-Oddi operates in the global marketplace. Star-Oddi's mission is to offer excellent quality, reliability and well designed, unique products.

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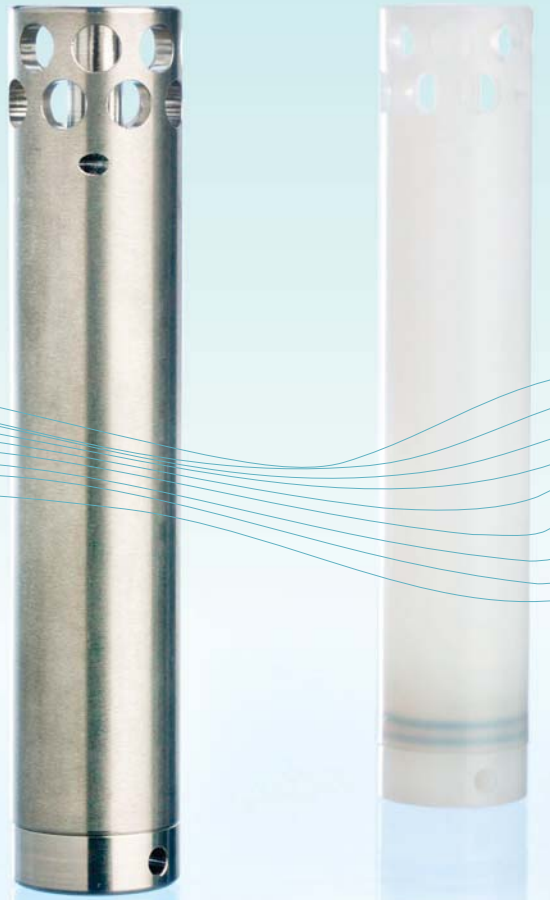
Starmon mini

Underwater Temperature Recorder



STAR ODDI

www.star-oddi.com

STARMON MINI

The Starmon mini records water temperature at a user defined interval and stores the data in its internal memory. The recorder is supported by the Communication Cable and the SeaStar software. Every Starmon recorder is calibrated in a stable, high accuracy temperature bath and has its individual calibration constants stored in its memory. Every Starmon recorder is delivered with a calibration certificate. Starmon mini is available in plastic (400m depth range) or titanium (11,000m depth range) housing.

EASY TO USE

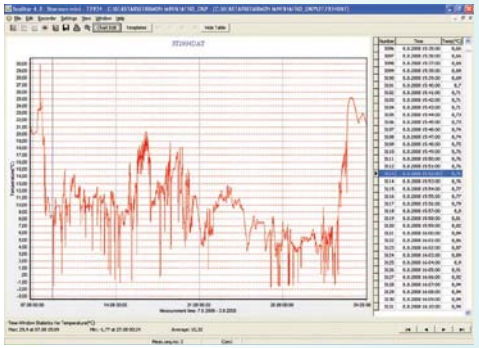
Using Starmon mini is simple and easy. The end cap of the housing is removed and the recorder is connected to a PC computer with the Communication Cable, either to a 9 pin RS232C serial port or USB. The user can connect to the recorder through the SeaStar software and define the sampling interval and start time of recordings. After the recorder has been started, cable is unplugged, end cap is screwed firmly on and recorder is ready for deployment. After the measuring period, data is uploaded from the recorder into a PC computer using the Communication Cable and SeaStar software. In SeaStar the data is shown in graphic and tabular form along with date and time of each measurement. Data can be imported into other data processing software.

APPLICATIONS

The Starmon mini is designed for use in oceans, rivers and lakes and has a reputation of being a reliable instrument in demanding environments. Starmon mini is mainly used for researches within the fields of marine biology, oceanography, hydrology, aquaculture, oil & gas, geology, geothermal and boreholes.

ACCESSORIES

A stainless steel housing can be provided for the Starmon mini. The housing can be used to protect the recorder from harsh conditions or to better attach the recorder to moorings, deployment lines and other underwater gear. Star-Oddi also offers a battery replacement kit.

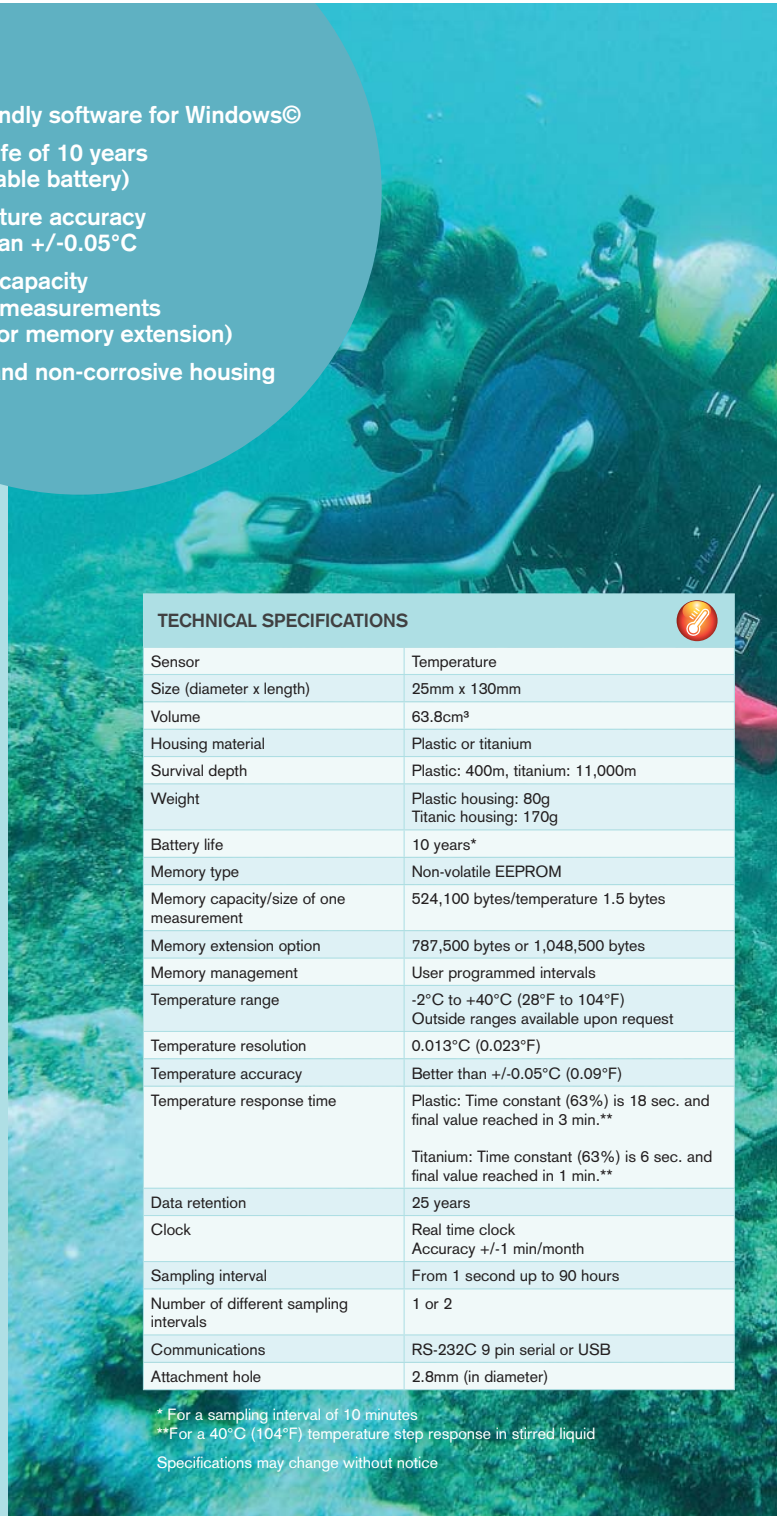


SeaStar software

Research vessel

FEATURES

- User friendly software for Windows©
- Battery life of 10 years (replaceable battery)
- Temperature accuracy better than +/-0.05°C
- Memory capacity 350,000 measurements (option for memory extension)
- Robust and non-corrosive housing



TECHNICAL SPECIFICATIONS

Sensor	Temperature
Size (diameter x length)	25mm x 130mm
Volume	63.8cm³
Housing material	Plastic or titanium
Survival depth	Plastic: 400m, titanium: 11,000m
Weight	Plastic housing: 80g Titanic housing: 170g
Battery life	10 years*
Memory type	Non-volatile EEPROM
Memory capacity/size of one measurement	524,100 bytes/temperature 1.5 bytes
Memory extension option	787,500 bytes or 1,048,500 bytes
Memory management	User programmed intervals
Temperature range	-2°C to +40°C (28°F to 104°F) Outside ranges available upon request
Temperature resolution	0.013°C (0.023°F)
Temperature accuracy	Better than +/-0.05°C (0.09°F)
Temperature response time	Plastic: Time constant (63%) is 18 sec. and final value reached in 3 min.** Titanium: Time constant (63%) is 6 sec. and final value reached in 1 min.**
Data retention	25 years
Clock	Real time clock Accuracy +/-1 min/month
Sampling interval	From 1 second up to 90 hours
Number of different sampling intervals	1 or 2
Communications	RS-232C 9 pin serial or USB
Attachment hole	2.8mm (in diameter)

* For a sampling interval of 10 minutes
**For a 40°C (104°F) temperature step response in stirred liquid

Specifications may change without notice