

STAR : ODDI

Starmon tilt

Acceleration, tilt (3D), temperature and depth logger

Durable, long life subsea acceleration and tilt data logger with large memory. Fast sampling and response.

For monitoring behavior, movements and orientation of subsea gear, cables and underwater vehicles. Fits both for short or long-term research.



Key features

- Fast sampling and response
- Robust, durable and accurate
- Long life and replaceable battery
- Easy to attach to gear
- High pressure survival

Required accessories

Standard USB cable

SeaStar Windows software

Optional: Plastic or steel attachment plates with bracket holders.

Various depth/pressure ranges

Choose a calibration range up to:

50 m, 100 m, 200 m, 500 m,
1000 m, 2000 m or 4000m

Contact Us

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TECHNICAL SPECIFICATIONS

Sensors	3-D acceleration (3-D tilt), pressure (depth), temperature
Size (Diameter x Length)	40 mm x 197 mm
Housing Material	Titanium
Weight	In air: 608 g, in water: 388 g*
Data Resolution	12 bit
Tilt Range	+/-90° for each of the axis X, Y and Z
Tilt Resolution	0.2° (inclination determination)
Tilt Accuracy	+/-3°
Acceleration Range	+/-3 g for each of the axis X, Y and Z
Acceleration Resolution	0.0025 g
Temperature Range	-2°C to +40°C (28°F to 104°F)
Extended Calibration Option	Up to 55°C
Temperature Resolution	0.002°C (0.004°F)
Temperature Accuracy	+/-0.025°C (+/-0.045°F)
Temperature Response Time	2 second time constant (63% of full value)
Standard Depth Ranges	50 m, 100 m, 200 m, 500 m, 1000 m, 2000 m, 4000m. 11000 m housing available, without a pressure sensor
Depth Resolution	0.005% of FS (Full Scale). Precision or relative accuracy is +/- 0.016% of FS. For example the precision is 8 mm for 50 m range.
Depth Accuracy	Better than +/-0.3% FS
Depth Response Time	Immediate

Pressure Range	5 bar, 10 bar, 20 bar, 50 bar, 100 bar, 200 bar, 400 bar. 1100 bar housing available, without a pressure sensor
Pressure Tolerance	Depends on pressure sensor selected. 50m to 500m = 100% higher than full scale calibration. 1000m, 2000m, 4000m = 50% higher. 0 bar housing available, 11km if no pressure sensor present
Memory Type	FLASH
Memory Capacity	3.3 million measurements per sensor**
Sampling Interval	User specified in second(s) minute(s), or hour(s)
Minimum Measuring Interval	1 second
Burst Measuring Option	All parameters simultaneously: 5Hz, 10Hz. Tilt-Acceleration only: 20Hz, 50Hz or 100Hz
Multiple Intervals Option	Up to 7 different intervals
Data Retention	20 years
Clock	Real time clock. Accuracy +/-1 min/month.
Communications	USB 2.0 cable, connects between data logger and a PC computer
Attachment Hole	6 mm, Plus two slots for strapping the logger, each 12 mm wide and 0.8 mm deep.
Computer Interface	USB 2.0 cable, for PC connection
Battery Life	10 years***
Replaceable Battery	Yes, with the use of soldering iron
Application Software	SeaStar for Windows

* If lighter weight is needed, the logger can be housed in anodized aluminium, weighing 393 g in air.

** If only recording tilt-acceleration the memory capacity is 5.6 million measurements.

***For sampling interval of 1 min. Battery is replaceable using a soldering iron.

Warranty: 12 months.

Specifications may change without notice.