

Starmon tilt

**Tilt, Acceleration,
Depth & Temperature
Data Logger**

**Easy to mount on
subsea gear**



ADVANTAGES AT A GLANCE

- Fast sampling and response
- Robust and durable
- Long life replaceable battery
- 3-D orientation view

APPLICATIONS

- Movements
- Orientation
- Vibration

ocean@star-oddi.com
www.star-oddi.com

STAR : ODDI

Logging Life Science

Fast sampling and response

Starmon tilt can record acceleration and tilt in burst mode at up to 100 Hz (100 measurements per second). Different sampling rates within a measuring period are possible. The temperature sensor has a fast response of 2 seconds.

Robust and durable

Starmon tilt can withstand harsh conditions at great depths. The robust and non-corrosive housing is easy to attach to gear. Holder brackets are available for attaching on flat surface.

Long life replaceable battery

Depending on interval setup, the battery can last over a decade. The software does energy and memory calculations based on certain intervals and reports battery life status upon connection with Starmon tilt.

3D orientation view

The user can view a 3-D image of the logger in the application software, showing the tilt angle at each data point. Automated animation playback of the orientation changes can be activated.

Technical specifications

Sensors	3-D acceleration (tilt), pressure (depth), temperature
Data logger size	Length 197 mm x diameter 40 mm
Weight	In air: 490 g in air / 240 g in water
Tilt range	+/-90° for each of the axis X, Y and Z
Tilt resolution	0.2° (inclination determination)
Tilt precision	+/-2°
Tilt accuracy	+/-5°
Acceleration range	+/-3 g for each of the axis X, Y and Z
Acceleration resolution	0.0025 g
Temperature resolution	0.002°C (0.004°F)
Temperature accuracy	+/-0.025°C (+/-0.045°F)
Temperature response time	2 seconds time constant (63% of full value)
Depth range	Choose between: 50 m, 100m, 200 m, 500 m, 1000 m, 2000 m
Depth resolution	0.01% FS (full scale)
Depth accuracy	+/-0.3% of selected range
Memory capacity	3.3 million measurements per sensor*
Sampling interval	User defined in sec, min or hour Option for burst sampling at each interval: 5Hz, 10Hz, 20Hz, 50Hz or 100Hz Option to define multiple intervals within the measuring period
Battery life	>10 years**
Attaching the logger	Attachment hole of 6 mm and two slots for strapping; each 12 mm wide and 0.8 mm deep
Communications	USB 2.0 cable, connects between data logger and a PC computer

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

**For sampling interval of 1 min. Battery is replaceable.

Specifications may change without notice.