

# 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



## STAR : ODDI

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## 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.*