

# 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



## **APPLICATIONS**

- Movements
- Orientation
- Vibration

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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 titanium 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.

## Individually calibrated

A calibration certificate is delivered with each instrument.

## Technical specifications

Housing	Titanium
Sensors	3-D acceleration (tilt), pressure (depth), temperature
Data logger size	Length 197 mm x diameter 40 mm
Weight	610g in air / 388g 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	+/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 available
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) of selected range
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
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
Battery life	>10 years**

\* 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.