

Tilt-Acceleration

Starmon Tilt

For profiling and long term

Advantages at glance

- Fast sampling and response
- Shallow to deep ocean
- Long life rechargeable battery

Applications

- Movements
- Orientation
- Vibration



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Fast sampling and response Starmon Tilt can record tilt-acceleration and depth in burst mode up to 100 Hz (100 measurements per second) and all parameters at up to 20 Hz. Different sampling rates within a measuring period are possible.

Long life rechargeable battery The rechargeable battery can last several years on a single charge. At an interval of 1 min it can last more than 5 years on a single charge.

Shallow to deep ocean A range of depth sensor calibrations is available, from 50m to 4500 m.

Robust and durable It has a robust titanium housing which tolerates harsh conditions, easy to attach to gear.

Technical specifications

Sensors	3-D acceleration (tilt), pressure (depth), temperature
Size (Diameter x length)	40 mm x 236 mm, titanium housing
Weight	761 g in air / 500 g in water
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 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 ranges	50 m, 100 m, 200 m, 500 m, 1000 m, 2000 m, 4000 m, 4500 m. 11km housing available
Depth resolution	0.005% FS (Full Scale) of selected range
Depth accuracy	+/-0.3% of selected range
Memory capacity	6.7 million measurements per sensor
Measurement 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
Communications	USB 2.0 cable, connects between data logger and a PC computer
Battery life	5 years on a single charge *
Replaceable battery	Yes, with the use of a soldering iron. Battery is rechargeable

* For sampling interval of 1 min.

10 sec interval = 2 years. Faster than 10 sec interval fills memory before draining the battery.

Number of recharges: 500 times