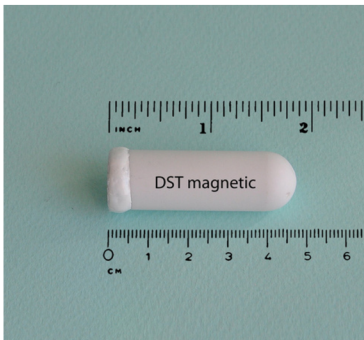


DST compass magnetic

Compass, Tilt (3D), Temperature and Depth Logger

Small and economical. Four sensors in one logger. Easy to mount on gear.

For monitoring behaviour, movement and orientation of subsea gear.



Key features

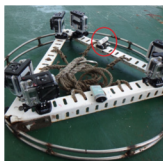
- Smallest compass data logger on the market
- Shallow to deep ocean
- Using protective housing gives flexible mounting

Required accessories

Communication Box, SeaStar Windows software.

Optional accessories

Adjustable housing.



Technical specifications

Sensors	Magn. field strength (3D), tilt (3D), temp, depth*
Size (Diameter x Length)	15mm x 46mm
Housing Material	Alumina (Ceramic)
Weight (in Air/in Water)	19g/12g
Data Resolution	12 bits for temp/depth, 12 bits for magnetic field strength (compass) and tilt
Compass Resolution	1°
Compass Accuracy	+/-15° heading with tilt correction on compass, up to +/-45° from horizontal plane
Magnetic Field Strength Range	0 to 2 gauss
Magnetic Field Strength Resolution	100nT
Magnetic Field Strength Accuracy	+/-300nT
Tilt Range	+/-90° (180° span)
Tilt Resolution	0.05°
Tilt Accuracy	+/-3°
Temperature Range	-1°C to +40°C (30°F to 104°F)
Temperature Resolution	0.032°C (0.058°F)
Temperature Accuracy	+/-0.1°C (0.18°F)
Temperature Response Time	Time constant (63%) reached in 20 sec.
Standard Depth Ranges	50m, 100m, 270m, 800m, 1500m, 3000m
Depth Resolution	0.03% of selected range
Depth Accuracy	+/-1% of selected range
Depth Response Time	Immediate
Memory Type	Non-volatile EEPROM
Memory Capacity	104,634 measurements**
Memory Capacity Bytes	392,379 bytes / temperature-pressure 3 bytes, compass (MFS)-tilt 12 bytes
Measurement Interval	User specified in second(s) minute(s), or hour(s)
Minimum Measurement Interval	1 second
Multiple Intervals Option	Up to 7 different intervals
Measurement Options (Primary/Secondary)	Temp/depth as primary, CompTilt as primary
Data Retention	25 years
Clock	Real time clock. Accuracy +/-1 min/month.
Communications	Communication Box, wireless transmission when DST sits in the box. Connection to PC: USB cable.
Attachment Hole	0.9 mm (diameter)
Battery Life	3 years***

* Pressure & temperature sensors optional.

** Divided between the number of sensors

*** For sampling interval of 10 minutes; MFS-tilt, and temp-pressure recorded simultaneously.

Warranty: 12 months.

Specifications may change without notice.