

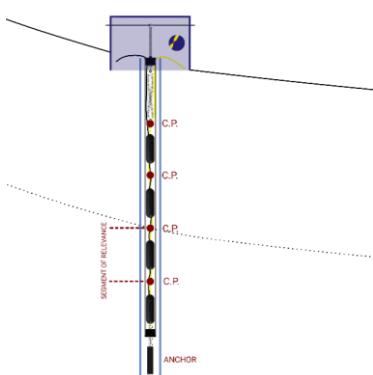
tilt link HD V

TECHNICAL SPECIFICATION

Sensors	3D Accelerometer, 3D Magnetometer, Thermometer
Measurement range	360°
Accelerometer range	± 1.2 g
Accelerometer sensitivity	105 LSB/° (0.0095°) 6000 LSB/g (0.167 mg) 0.166 mm/m
Accelerometer sensitivity error	±0.7%
Accelerometer sensitivity dependence on temperature	±0.3%
Accelerometer linearity error	±4 mg
Offset error evaluating absolute positions	±1.15° ±20 mg
Offset dependance on temperature	±0.57° for X & Y axes, ±0.86° for Z axis ±10 mg for X & Y axes, ±15 mg for Z axis
Drift of the offset error	±0.23° for X & Z axes, ±0.34° for Y axis ±4 mg for X & Z axes, ±6 mg for Y axis
Accelerometer amplitude response	40 Hz
Accelerometer temperature operating range	-40 °C ÷ +125 °C
Thermometer measuring range	-50 °C ÷ +150 °C
Thermometer sensitivity	18.9 LSB/°C (0.053°C)
Magnetometer range	±4 Gauss
Magnetometer sensitivity	6842 LSB/Gauss (0.000146 Gauss)
Zero-gauss level	±1 Gauss
Magnetometer operating temperature range	-40 °C ÷ +85 °C
Total accuracy	Depending on MUMS chain configuration and length
Length and Diameter	125 mm – 37 mm
Centre-to-centre between sensors	50 cm (minimum distance) 100 cm (recommended distance)
Kevlar rope traction strength	15 kN
Node weight	0.2 kg
Electrical cable	CEI 20-35

DISCLAIMER: ASE S.r.l. reserves the right to change any product or technology in order to improve its reliability, functionality or design without prior notice.

MUMS instrument is covered by a patent


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