



ase
ADVANCED SLOPE ENGINEERING



UNIVERSITÀ DI PARMA

tilt link

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TECHNICAL SPECIFICATION

Measurement range	360 °
Sensors	Accelerometer 3D, Magnetometer 3D, Thermometer
Accelerometer range	± 2 g
Accelerometer sensitivity	0.244 mg/LSB
Accelerometer stability	± 0.008 %/°C
Accelerometer accuracy	± 1 %
Magnetometer range	± 1200 µT
Magnetometer sensitivity	0.1 µT /LSB
Magnetometer stability	± 0.1 %/°C
Magnetometer hysteresis	± 1 % FS
Thermometer sensitivity	0.96 °C/LSB
Thermometer repeatability	1 °C
Total accuracy	Depending on MUMS chain configuration and length
Operating temperature range	-40 °C ÷ +85 °C
Centre-to-centre between sensors	50 - 100 cm (standard) *
Length and Diameter	125 mm – 37 mm
Borehole suggested diameter	≥ 130 ÷ 150 mm
Node weight	0.2 kg
Kevlar cable traction strength	15 kN
Electrical cable	CEI 20-35

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MUMS is a patent system

