

PRECONV Link TECHNICAL SPECIFICATION

Sensors	3D Accelerometer, 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
Sensitivity error	±0.7 %
Sensitivity dependence on temperature	±0.3 %
Accelerometer linearity error	±4 mg
Offset error (on absolute measure)	±1.15° ±20 mg
Offset (on absolute measure) dependence on temperature	±0.57° for X & Y, ±0.86° for Z ±10 mg for X & Y, ±15 mg for Z
Offset (on absolute measure) drift	±0.23° for X & Z, ±0.34° for Y ±4 mg for X & Z, ±6 mg for Y
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)
Total accuracy	Depending on MUMS chain configuration and length
Centre-to-centre between sensors	50 cm (minimum distance) 100 cm (recommended distance)
Node length and diameter	125 mm – 37 mm
Node weight	0.2 kg
Electrical cable	CEI 20-35

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MUMS instrument is covered by a patent

