

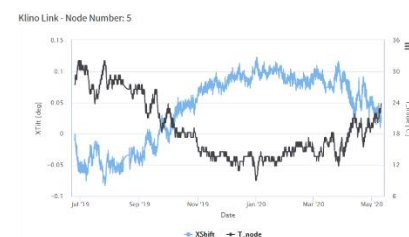
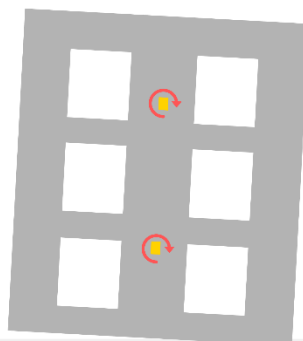
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TECHNICAL SPECIFICATION

Sensor	3D Accelerometer, Thermometer
Measuring range	Mode 1: $\pm 90^\circ$ Mode 2: $\pm 10^\circ$
Accelerometer range	$\pm 1.2 \text{ g}$
Accelerometer sensitivity	Mode 1 105 LSB/ $^\circ$ (0.0095°) 6000 LSB/g (0.167 mg) Mode 2 209 LSB/ $^\circ$ (0.00478°) 12000 LSB/g (0.083 mg)
Sensitivity error	$\pm 0.7 \%$
Sensitivity dependence on temperature	$\pm 0.3 \%$
Accelerometer linearity error	$\pm 4 \text{ mg}$
Offset error (on absolute measure)	$\pm 1.15^\circ$ $\pm 20 \text{ mg}$
Offset (on absolute measure) dependence on temperature	$\pm 0.57^\circ$ for X & Y, $\pm 0.86^\circ$ for Z $\pm 10 \text{ mg}$ for X & Y, $\pm 15 \text{ mg}$ for Z
Offset (on absolute measure) drift	$\pm 0.23^\circ$ for X & Z, $\pm 0.34^\circ$ for Y $\pm 4 \text{ mg}$ for X & Z, $\pm 6 \text{ mg}$ for Y
Accelerometer amplitude response	40 Hz
Accelerometer temperature operating range	$-40^\circ\text{C} \div +125^\circ\text{C}$
Thermometer measuring range	$-50^\circ\text{C} \div +150^\circ\text{C}$
Thermometer sensitivity	18.9 LSB/ $^\circ\text{C}$ (0.053 $^\circ\text{C}$)
Module dimensions	125 mm – 56.5 mm
Module 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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