

Ultra-high sensitivity and stability, low-power MEMS accelerometer

Introducing a novel MEMS inertial sensor for navigation geophysics and monitoring, with world record performance.



INNOSEIS
SENSOR TECHNOLOGIES



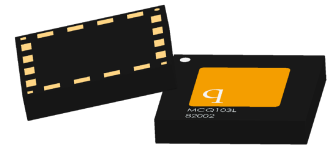
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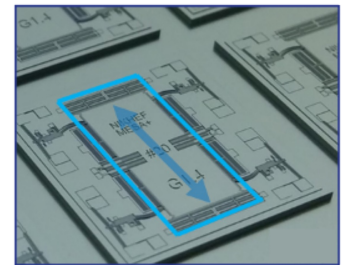
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The Graviton high precision single axis MEMS accelerometer



Patented MEMS technology

Sensitivity and stability
Patented sensor design allows for world record performance

Low power
High performance operation is achieved without power demands

Competitive pricing
Standardized and volume production techniques

Single axis technical specifications:

	GRAVITON-010	GRAVITON-200
Input range	± 0.1 g	± 2 g
Bias – Stability (1 hr)	< 0.05 µg	< 0.1 µg
– Repeatability (ON/OFF, Shock)	< 10 µg	
– Thermal sensitivity	< 100 µg/K	
Scale factor	1500 mV/g	
– Repeatability	< 80 ppm	
– Thermal sensitivity	< 1000 ppm/K	
Intrinsic noise	2 ng/√Hz	40 ng/√Hz
– In band 0 – 10 Hz	10 ng _{rms}	150 ng _{rms}
– In band 10 – 100 Hz	20 ng _{rms}	570 ng _{rms}
Bandwidth	100 Hz	200 Hz
Operating temp. range	-40 to +80 °C (extended range available)	
Quiescent current	15 mA	6 mA
Quiescent power	50 mW	20 mW
Electrical interface	Digital	
Input voltage	3.3 V	
Weight	1.5 grams	
Dimensions	9 x 9 x 3 mm	

About Innoseis Sensor Technologies

Innoseis Sensor Technologies is a spinout company from the National Institute for Sub-atomic Physics in the Netherlands. Its mission is to commercialize technology arising from the fundamental physics research into gravitational wave detection. Working with partners such as Shell and ESA, it has developed cutting-edge sensing technology that has significantly improved inertial sensing in terms of performance and cost.