

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

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



INNOSEIS
SENSOR TECHNOLOGIES

Science Park 105
1098 XG Amsterdam
The Netherlands

✉ info@innoseistech.com

www www.innoseistech.com

Sensitivity and stability

Patented sensor design allows for world record performance

Low power

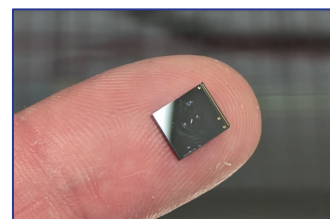
High performance operation is achieved without power demands

Competitive pricing

Standardized and volume production techniques

Available in multi-axis configurations. Single axis technical specifications:

	GRAVITON-010	GRAVITON-200
Input range	± 0.15 g	± 2 g
Bias – Stability (1 hr)	< 0.1 μ g	< 0.5 μ g
– Repeatability (ON/OFF, Shock)	< 10 μ g	
– Thermal sensitivity	< 100 μ g/K	
Scale factor	1500 mV/g	
– Repeatability	< 80 ppm	
– Thermal sensitivity	< 1000 ppm/K	
Intrinsic noise	10 ng/ \sqrt Hz	40 ng/ \sqrt Hz
– In band 0.01 – 10 Hz	42 ng _{rms}	170 ng _{rms}
– In band 10 – 100 Hz	95 ng _{rms}	400 ng _{rms}
Bandwidth	100 Hz	200 Hz
Operating temp. range	-40 to +85 °C	
Quiescent current	15 mA	6 mA
Quiescent power	50 mW	20 mW
Interface readout module	Digital (SPI)	
Input voltage	3.3 and 5 V	
Weight and dimensions (excl. application specific readout module)	1 gram 6 x 7 x 1 mm	



The Graviton high precision single axis MEMS accelerometer

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.