

# Motion Sensors



Mil / Aerospace

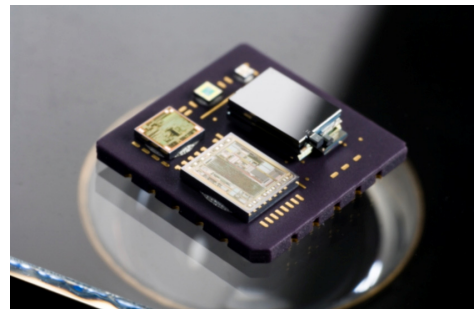


Industrial



Energy

**Colibrys is a world-leading supplier of standard and semi-custom MEMS-based sensors and actuators for Harsh-Environment (Energy, Military and Aerospace) Industrial and Instrumentation markets**



**Smart Sensing Solutions**

	Range	Key specification	Packaging	Key features	
<b>Seismic sensing</b>					
SF1500S.A / SN.A	± 3g	Noise: 300ng/√Hz	1 axis PCB board	Single axis MEMS servo accelerometers presenting the lowest noise level in the market	
<b>NEW</b> SF2006S.A / SN.A	± 5g	Noise: 0.9 (<1.4)	1 axis PCB board		
<b>Vibration sensing</b>					
VS9000.D	± 2g to ± 200g	Bandwidth: > 1 kHz @ 5%	LCC20	(8.9mm x 8.9mm) (0.35inch x 0.35inch)	Open loop sensor with excellent bias stability and high bandwidth
<b>Inertial sensing</b>					
MS8000.D	± 2g to ± 100g	Bias stability: few mg	LCC48	(14mm x 14mm) (0.56inch x 0.56inch)	Open loop sensors, excellent bias stability and designed for Harsh-Environments (-55°C-+125°C)
HS8000.D	± 2g, ± 30g, ± 100g	Shock resistance: >20'000g	LCC48	(14mm x 14mm) (0.56inch x 0.56inch)	
MS9000.D	± 2g to ± 200g	Bias stability: few mg	LCC20	(8.9mm x 8.9mm) (0.35inch x 0.35inch)	
RS9010.A	± 10g	High-end motion sensor	LCC20	(8.9mm x 8.9mm) (0.35inch x 0.35inch)	Excellent bias, scale factor stability for AHRS application
<b>Tilt sensing</b>					
MS8002.D	± 2g	Low power: < 2mW	LCC48	(14mm x 14mm) (0.56inch x 0.56inch)	High resolution, high T stability and low power consumption (-55°C-+125°C)
MS9000.D	±1g to ± 2g	Small size	LCC20	(8.9mm x 8.9mm) (0.35inch x 0.35inch)	
RS9003.A	± 3g	High accuracy	LCC20	(8.9mm x 8.9mm) (0.35inch x 0.35inch)	Sub-mg long-term composite bias and scale factor stability

Seismic sensing



SF1500S.A



SF2006S.A

SF1500S.A / SN.A, **NEW** SF2006S.A / SN.A

Sophisticated MEMS capacitive sensors combined with advanced electronics are key to providing high performance accelerometers for strong-motion seismic applications (earthquake or environmental shaking). These products, with their extremely low noise and large dynamic range are the world's best-in-class and present the unique opportunity to replace traditional geophones or seismometers.

- Applications include: scientific strong motion earthquake monitoring, structural health monitoring, civil engineering, homeland security, oil & gas downhole imaging

Vibration sensing



VS9100.D

VS9000.D

Variable capacitance sensors can advantageously replace traditional piezo-resistive products in many specific applications. For a given acceleration range and bandwidth, the capacitive sensor offers a lower noise floor and significantly better stability performance over time and temperature.

- Applications include: railway technology, automotive testing, transportation, HUMS, instrumentation, structural monitoring

Inertial sensing



MS9002.D



MS8100.D

RS9010.A, MS9000.D, MS8000.D, HS8000.D

The long term bias stability and high reliability of our MEMS capacitive accelerometers, specifically designed for harsh environment and safety critical applications consistently meet the increasing needs of Inertial Measurement Unit (IMU) and Attitude-Heading and Reference System (AHRS) products for civilian and military applications.

- Applications include: aerospace, missiles and precision munitions, AHRS, land & sea navigation, UAV, directional drilling, train applications

Tilt sensing



RS9003.A



MS8002.D

RS9003.A, MS9002.D, MS9001.D, MS8002.D

Variable capacitance sensors, due to their inherent high resolution, high temperature stability and low power consumption, effectively address the requirements for tilt sensing applications.

- Applications include: (antenna, camera, radar, turret) platform stabilization; tilt sensor (cannon, range finder, compass, North finder) and drilling (directional, hole survey)

Colibrys also provides an industrial experience and know-how, a flexibility to tailor the products to your applications and on time and reliable delivery of its products from stock. In order to provide an ideal support, our products are not only available directly at Colibrys but also largely available worldwide through a wide network of distributors and agents. Do not hesitate to access our website for precise contact information [www.colibrys.com](http://www.colibrys.com).

