MS1000
Coming Soon

Tactical Grade Inertial MEMS Accelerometer

Leading edge long term bias repeatability

In-run bias stability: 20 µg (±10g)

Low noise: 34 µg/√Hz (±10g)

Differential analog output signal

Low consumption (3mA @ 3.3V)

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Safran Colibrys is proud to announce MS1000 – the best open loop MEMS accelerometer in its class.

This tactical-grade sensor is designed for advanced inertial applications such as AHRS & Flight Control Systems, tactical IMUs, land & marine navigation, and high-end industrial systems.

Using the same tiny hermetically sealed package (LCC20) used for Safran Colibrys' other sensor families, the MS1000 features a new MEMS design along with improved electronics that lead to unbeatable performance in terms of bias stability, residual error, and low-noise.

Each sensor, embedded with a one-axis capacitive bulk MEMS accelerometer and integrated circuitry, delivers highly stable analog acceleration and temperature measurements, as well as digital functions including self-test, overload, and power-on reset.

Key Parameter, typical values	MS1002*	MS1005**	MS1010*	MS1030**	MS1100**	Unit
Full-Scale acceleration	± 2	± 5	± 10	± 30	± 100	g
Residual Bias modeling error (-40 to 85° C)	0.2	0.5	1.0	3.0	10.0	mg
In run bias stability	4	10	20	60	200	µg
Residual Scale factor modeling error (-40 to 85° C)	300	300	300	300	300	ppm
Scale Factor Sensitivity	1330	540	270	90	27	mV/g
Resolution (1Hz)	7	17	34	102	339	µg rms
Non Linearity (IEEE norm)	0.3	0.3	0.3	0.3	0.3	% FS
Temperature range				-40 to 125		°C

* Initial products available | ** Products in development

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