

AMS MEMS SEISMIC ACCELEROMETER

AMS MEMS seismic accelerometer with high sensitivity (>110dB) suitable for any environmental condition and designed for the measurement and study of low intensity accelerations in the range 0-400Hz.

AMS models are high-sensitivity sensors designed for seismic purposes and for low-intensity, low-frequency motion studies.

Accelerometers provide a high level, low impedance output. In most applications, no signal conditioning is required. These sensors use low-noise MEMS to provide low-frequency measurements in the micro-G range.

APPLICATIONS

- Temporary or quick vibration measurements
- Disturbance to the person
- Tough environmental conditions



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ELECTRONIC FEATURES

Full scale accelerometers (input range)	$\pm 2 G$ o $\pm 5 G$
Output voltage	± 4 Volt
Sensitivity	2000 mV/g - 800 mV/g (type $\pm 5g$)
Frequency response	0 - 400 Hz (nominal, -3dB)
Operating voltage	Da +6 a +18 Vdc, 8 mA (for single axis)
Output impedance	90 Ohm
Dynamic range	> 100 dB
Sensitive axes alignment	Da -250 a 250 ppm/C° max (da -55 a 125°C) Compensated by internal temperature sensor
Test sensor	External test input, gravity force non balanced
Cross axes sensitivity	<2% - Excluding of Sensitive Axis Alignment
Output noise	<70 μ V RMS from 0 to 50 Hz
Non-linearity	<0.1%

ENVIRONMENTAL CHARACTERISTICS

Temperature operating	-40 to +90 Deg C
Temperature storage	-50 to +90 Deg C
Shock survival	2000 g, 0,1 mSec
Ambient pressure	0 to 5 bar
Humidity	100% Contenitore IP67

PHYSICAL CHARACTERISTICS

Weight	800 g
Dimension	60 mm L x 60 mm W x 50 mm H
Case material	Anodized Aluminium
Electrical interface	10 terminal pins / cable
Exit cable	IP66 with connector or IP68 with cable gland
Fastening	Three different fixing methods
Case	Single, biaxial or triaxial accelerometer settings within the same case

**Contact now your
dedicated consultant:**

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