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AMS MEMS SEISMIC ACCELEROMETER

AMS MEMS seismic accelerometer with high sensitivity 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
- Though environmental conditions

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Rev2401

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ELECTRONIC CHARACTERISTICS

Number of axis	1, 2, 3 orthogonally oriented
Full scale acceleration (available ranges)	± 2g or ± 5g
Output voltage	± 4 Volt differential
Sensitivity	2000 mV/g (2 g model) - 800 mV/g (5 g model)
Frequency response	0 - 700 Hz nominal, -3dB (2g model), 0-1100Hz (5g model)
Operating voltage	+6 to +18 Vdc, 20 mA (for triaxial model)
Output impedance	90 Ohm
Dynamic range	> 100 dB (0-10Hz)
Noise density	7 µg/√Hz typical for 2g model
Non-linearity	<0.1%
Offset drift	±0,2mg/°C (2g model), ±0,5mg/°C (5g model)
Full scale drift	120 ppm/C°
Sensor test	External test input, +/-1g 24Hz output

ENVIRONMENTAL CHARACTERISTICS

Temperature operating	-20 to +80 Deg C
Temperature storage	-40 to +90 Deg C
Shock survival	2000 g, 0,1 mSec
Ambient pressure	0 to 5 bar
Humidity	100%

PHYSICAL CHARACTERISTICS

Weight	800 g
Dimension LxWxH	60mm x 60 mm x 60 mm (without connectors)
Cabinet material	Anodized Aluminium
Protection rating	IP65 with connector or IP68 with cable gland
Electrical interface	10 terminal pins CONNECTOR / cable gland

Contact now your dedicated consultant:

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