

AMS-PLUS SEISMIC ACCELEROMETER

AMS-PLUS 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 0-500Hz.

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

AMS-PLUS offer low noise and higher dynamic range respect to standard AMS.

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.

It is available in single, biaxial or triaxial configuration.



APPLICATIONS

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

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ELECTRONIC FEATURES

Number of axis	1, 2, 3 orthogonally oriented
Full scale acceleration (available ranges)	$\pm 2g$ or $\pm 5g$
Output voltage	± 4 Volt differential
Sensitivity	1500 mV/g (3 g model) - 900 mV/g (5 g model)
Frequency response	0 - 500 Hz nominal, -3dB (3g model), 0-1100Hz (5g model)
Operating voltage	+6 to +15 Vdc, 20 mA (for triaxial model)
Output impedance	90 Ohm
Dynamic range	120 dB typ (0-10Hz); 108.5dB (0-100Hz)
Noise density	7 $\mu\text{g}/\sqrt{\text{Hz}}$ typical for 2g model
Non-linearity	<0.3%
Offset drift	$\pm 0,3\text{mg}/^\circ\text{C}$ (3g model), $\pm 0,5\text{mg}/^\circ\text{C}$ (5g model)
Full scale drift	120 ppm/C°
Sensor test	External test input, +/-0,25g 19Hz output

ENVIRONMENTAL CHARACTERISTICS

Temperature operating	-20 to +60 Deg C
Temperature storage	-40 to +90 Deg C
Shock survival	1500
Ambient pressure	0 to 5 bar
Humidity	100%

PHYSICAL CHARACTERISTICS

Weight	800 g
Dimension LxWxH	60 x 60 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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