

Accel-90

Analog Accelerometer System

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Accel-90 is a MEMS (Micro Electro Mechanical System) tri-axial accelerometer offering excellent performance, robustness, immunity to electromagnetic interference (EMR), low power and small size. Accel-90 is compatible with the NetDAS data acquisition system and can run from USB power.



Applications and Highlights

- Structural and vibration analysis
- Tri-axial (X-Y-Z) components
- +/- 5g range
- High-performance and rugged MEMS design
- >90 dB dynamic range
- Power consumption of less than one watt
- Compatible with NetDAS
- 5VDC power input, compatible with USB

Accel-90 Specifications

Accel-90 is a tri-axial accelerometer featuring high dynamic range, low noise, EMR immunity, robustness and frequency response into the low-audio range. Accel-90's high dynamic range makes it a good choice for seismic monitoring in areas where a large magnitude range of earthquakes is possible. Accel-90 finds application in recording systems for seismic safety and alarm systems at LNG plants and other industrial facilities. Accel-90's low noise floor allows triggering down to several milli-g's meeting seismic building code requirements. In spite of its high performance Accel-90 has low enough power consumption that operation from USB power is possible eliminating the need for an external power supply. For many applications Accel-90 offers the best price/performance ratio.

Dynamic range	90 dB (0.1 – 100 Hz)
Linearity	0.1% FS
Range	+/- 3g
Sensitivity	0.4 volts/g
Noise floor	40ug RMS, 0.1 – 100Hz
Offset	+/- 125 mg
Cross-axis rejection	< 3%
Non-linearity	< 1%
Frequency response	DC – 500 Hz
Damping ratio	0.7
Axis	Z-X-Y or X-Y or Z (three, two or single axis), differential
Enclosures	Crush-proof die-cast Aluminum or tri-axial block
Environmental	IP66, -30 to +60 degrees C
Shock limit	100g
Power	0.75 watts, 5 VDC input (+/- 0.3 volts)
Size	4.6(L) X 4.7(W) X 3.3(H), inches or 12(L)X13(W)X8(H), cm
Weight	2.8 lbs or 1.3 kg
Connector	PT06E-14-19S

Sales and Contact Information

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