- **Low Noise**
- **Wide Temperature Range**
- **Low Power**
- **Rugged**

EA-120 Triaxial Force Balanced Accelerometer

The EA-120 occupies the medium range of the Force Balance Accelerometer line. It offers low noise, high dynamic range, in a frequency band of DC to 50 Hz. It is perfectly suited for most strong motion monitoring applications. The EA-120 standard packaging is an open-ended 3 1/4 inch plate that can be mounted internally in the PMD recorder or the R-1 Triaxial Rotational Sensor. Optional freestanding field or borehole packages are available. The sensor elements are housed in an epoxy sealed aluminum case. They are extremely rugged, and designed for long-term deployment in field environments. Unlike solid-state type accelerometers, the EA-120 does not experience significant drifting with temperature changes. Options include a variety of full-scale "g" levels, user selectable full-scale "g" ranges, and other frequency bands.

Specifications	
Full Scale Range Standard Optional	±2 g ±0.5 g to ±5 g, user selectable opt.
Dynamic Range	128 dB ± 5V 135 dB ± 10V
Frequency Band Standard Optional Extended	DC to 50 Hz +1, -3 dB DC to 100 Hz, 200 Hz
Output Signal Swing	0.5 to 4.5 V or ±5 V, ± 10 V
Resolution (at ±10 V)	0.4 µg @ 1g 0.8 µg @ 2g
Zero G bias	± 0.01g, optional electronic adjustment
Linearity	± 1% over temperature range
Cross Axis Sensitivity	0.02 g/g (0.005 g/g option)
Operation Temperature Standard	-10° to 75° C
Power Supply	12 VDC
Supply Current Maximum	30 ma
Vibration Survival	10 g RMS, 2 to 2,000 Hz
Shock Survival	1000 g, 1 ms 100 g, 11 ms
Humidity	95% R.H.
Housing Standard Optional	Open Internal Mount 3.25" plate appx. Field Enclosure, Borehole
Specifications subject to change.	

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