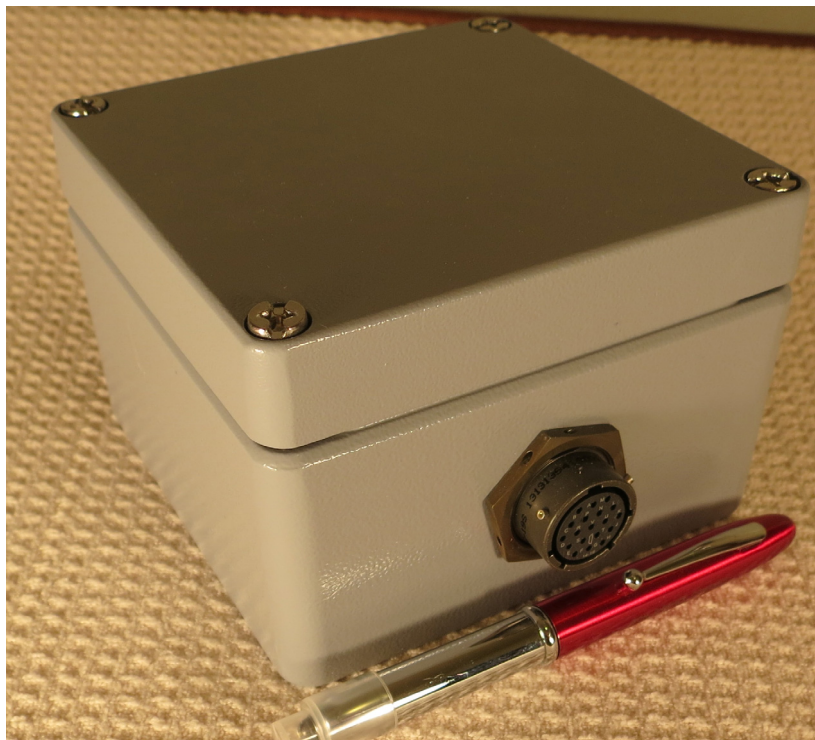


Accel-120

Analog Accelerometer System

1245 Bridger Hills Drive
Bozeman, Montana USA
www.daqsystems.com
+1 406-599-0985

Accel-120 is a Servo FBA (Force Balance accelerometer) offering best-in-its-class performance, robustness and small size. *Accel-120* is compatible with the NetDAS data acquisition system and can run from USB power. The *Accel-120* will be available 2Q2017.



Applications and Highlights

- Structural and vibration analysis
- +/- 4g
- High-performance force-feedback design
- 130 dB dynamic range (typical)
- Power consumption of less than one watt
- Compatible with NetDAS
- Input power options: 5VDC, USB, 12VDC (option)
- Earthquake early warning

Accel-120 Specifications

Accel-120 is a tri-axial axis accelerometer featuring high dynamic range, low noise, and robustness. *Accel-120's* high dynamic range makes it a good choice for seismic monitoring in areas where a large magnitude range of earthquakes is possible. *Accel-120* finds application in recording systems necessary to meet code for tall buildings and for seismic safety and alarm systems at LNG plants and other industrial facilities. *Accel-120* features a very low noise floor thereby allowing reliable triggering down to several one milli-g. In spite of its high performance *Accel-120* has low enough power consumption that operation from USB power is possible eliminating the need for an external power supply. The closed-loop design provides improved performance over non-feedback “bridge” type silicon sensors. For many applications *Accel-120* offers the best price/performance ratio in its class.

Dynamic range	120 dB (0.1 – 200 Hz), 130dB typical
Linearity	0.1% FS
Range	+/- 4g
Sensitivity	0.194 V/m/s ²
Cross-axis rejection	40 dB
Frequency response	DC – 450 Hz
Output impedance	TBD
Axis	Z-X-Y or X-Y or Z (three, two or single axis), differential
Self-test	CMOS 5V logic input
Enclosures	Crush-proof die-cast Aluminum or tri-axial block
Environmental	IP66 option, -30 to +60 degrees C
Shock limit	100g
Current drain	200mA @ 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	4 lbs or 1.8 kg
Connector	PT06E-14-19S

Sales and Contact Information

DAQ Systems, Bozeman, MT, USA
Voice: +1 406-599-0985
Email: inquiry@daqsystems.com
www.daqsystems.com