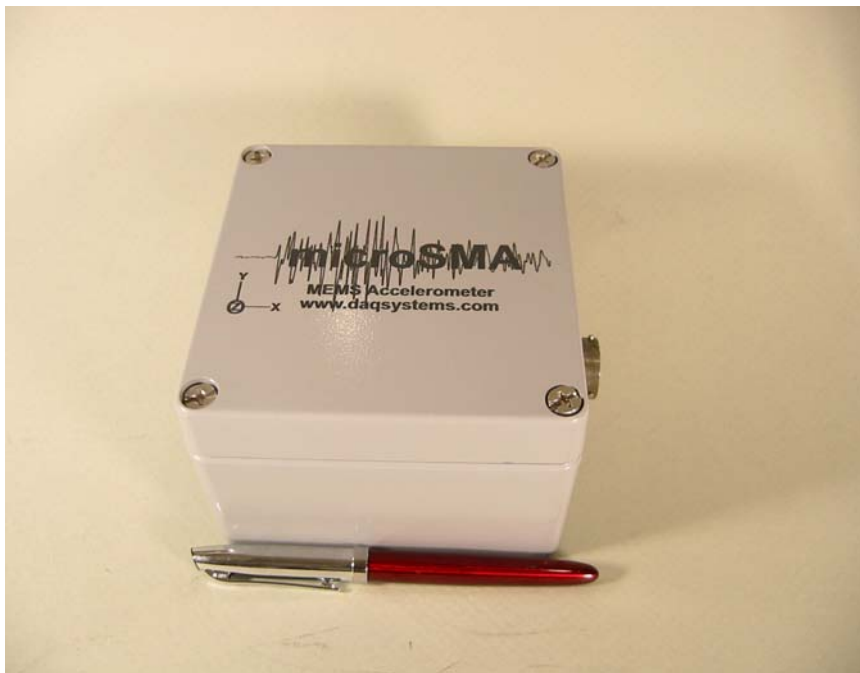


MicroSMA Analog Accelerometer System

MicroSMA is a MEMS (Micro Electro Mechanical System) FBA (Force Balance Accelerometer) offering excellent performance, robustness, immunity to electromagnetic interference and small size. MicroSMA is compatible with the NetDAS data-acquisition system and can run from USB power.



Applications and Highlights

- Structural and vibration analysis
- +/- 3-g or +/- 4-g ranges
- High-performance force-feedback design
- 120-dB dynamic range (+/- 3-g option) or 110-dB dynamic range (+/- 4-g option)
- Power consumption of less than one watt
- Compatible with NetDAS
- 5VDC power input
- OEM option (no case)

MicroSMA Specifications

MicroSMA is a tri-axial axis accelerometer featuring high dynamic range, low noise, high electro-magnetic radiation immunity, robustness and frequency response into the low-audio range. MicroSMA's high dynamic range makes it a good choice for seismic monitoring in areas where a large magnitude range of earthquakes is possible. MicroSMA 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. MicroSMA features a very low noise floor thereby allowing reliable triggering down to several milli-g's. In spite of its high performance MicroSMA 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 MicroSMA offers the best price/performance ratio.

Dynamic range	120 or 110 dB
Linearity	0.1% FS
Range	+/- 3 g or +/-4 g full-scale range
Sensitivity	2.4 volts/g (+/- 3-g unit); or 1.6 volts/g (+/- 4-g unit)
Cross-axis rejection	46 dB
Frequency response	DC—1000 Hz
Output impedance	10 ohms
Axis	Z-X-Y or X-Y or Z (three, two or single axis)
Self-test	CMOS 5V logic input
Enclosures	Crush-proof die-cast aluminum or tri-axial block
Environmental	IP64 (IP65, IP66 option); -30 to +60 degrees C
Shock limit	1000 g
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) X 13(W) X 8(H) cm
Weight	2.8 lb; or 1.3 kg
Connector	PT06E-14-19S

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