

Low Noise Accelerometers

500mV/g



AC600-2P Low Noise Accelerometer

The AC600-2P is a compact, multi-purpose accelerometer; top exit connector and cable with a sensitivity of 500 mV/g. Constructed of stainless-steel for indoor and outdoor environments. Perfectly suited for machine condition monitoring and/or offline applications with data collectors, vibration analyzers and balancing machines.

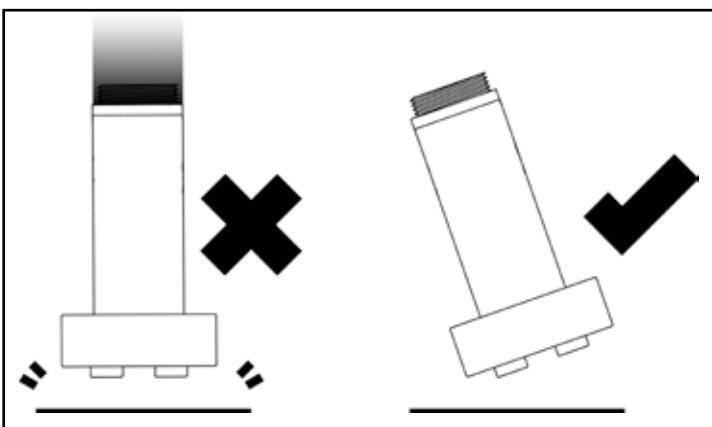
Features:

- High-Performance
- Compact sensor
- Very Low Noise
- Superior RF Immunity
- 0.1 Hz for Low Frequency Measurements
- 10,000 Hz for High Frequency Detection
- ± 10% Sensitivity
- Standard 2 Pin MIL Connection

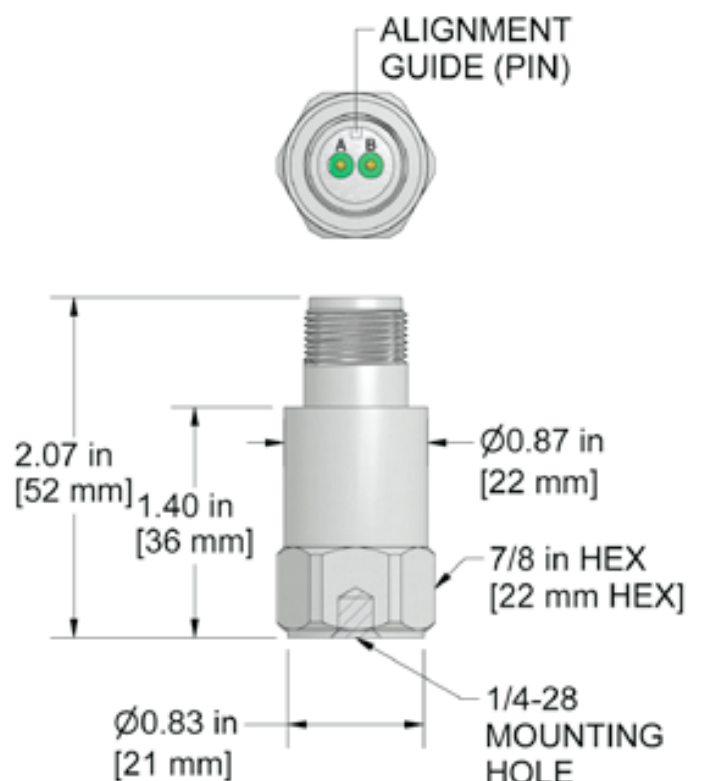
Unless otherwise specified, all accelerometers are fitted with a removable magnetic base.



APPLYING MAGNETIC SENSOR BASES DIRECTLY PERPENDICULAR TO MACHINE SURFACES MAY DAMAGE THE MAGNETS.



AC600-2P Dimensions

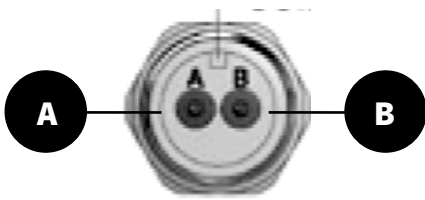


Technical Specs

Specifications	Standard	Metric
Part Number	AC600-2P	
Sensitivity	500 mV/g	
Frequency Response ($\pm 3\text{dB}$)	5-600 000 CPM	0,1-10 000 Hz
Frequency Response ($\pm 10\%$)	36-180 000 CPM	0,6-3 000 Hz
Dynamic Range	± 10 g, peak	
Electrical		
Settling Time	<2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	1.7 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	0.2 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	0.12 $\mu\text{g}/\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

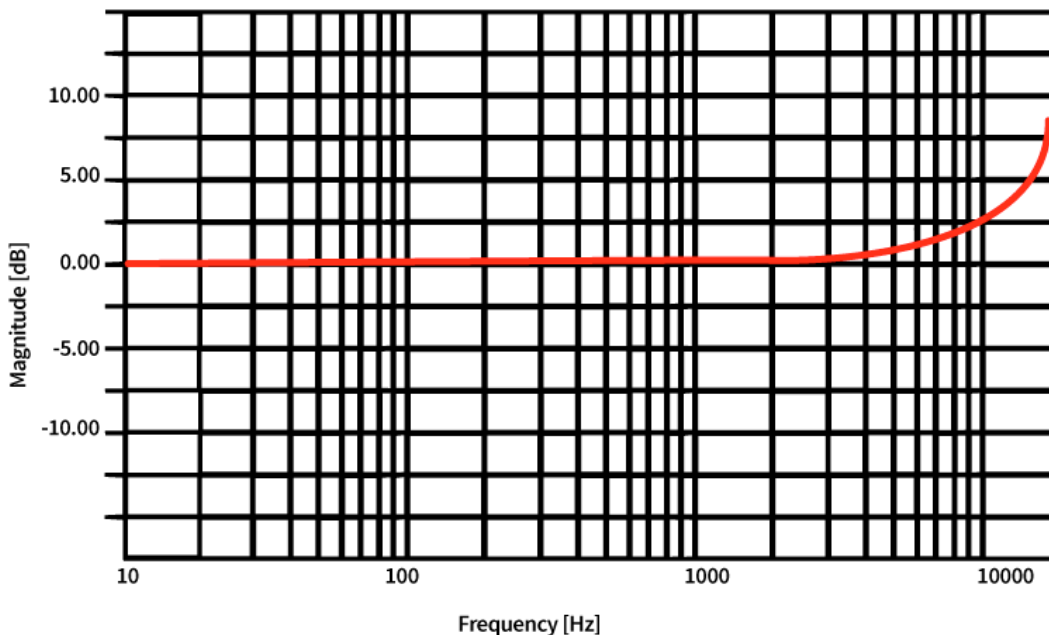
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Max Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth	200 ft	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3,25 oz	92 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1 080 000 CPM	18 000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware (Stud)	1/4-28	M6x1
Calibration Certificate	CA10	

Pin Configuration



A: Signal / Power(+)
B: Common (-)

Frequency Response



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