

# AC146 Series



VIBRATION ANALYSIS HARDWARE

Miniature Industrial, Magnet Mount, Multipurpose Accelerometer,  
Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±10%



## Product Features

Standard, Route-Based Sensor

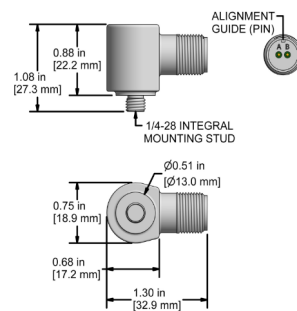
Excellent Sensor for Trending

- ▶ Specifically Designed to Use with MH128-1A Magnet
- ▶ Comfortable Ergonomic Design Makes Data Collection Easy

### AC146-1D

2 Pin mini-MIL Connector

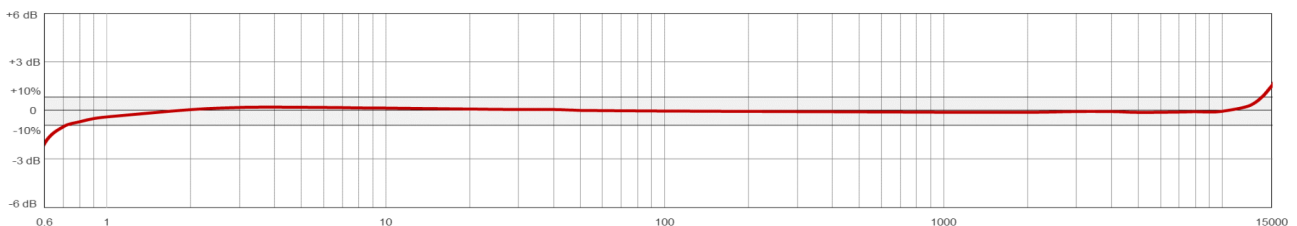
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	<u>Environmental</u>		
Frequency Response (±3dB)	36-900,000 CPM	0.6-15000 Hz	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±10%)	60-420,000 CPM	1.0-10000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 50 g, peak	Electromagnetic Sensitivity		CE
<u>Electrical</u>			Sealing		Welded, Hermetic
Settling Time	<2.5 seconds		SIL Rating		SIL 2
Voltage Source (IEPE)	18-30 VDC		<u>Physical</u>		
Constant Current Excitation	2-10 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	30 µg/√Hz		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	4 µg/√Hz		Weight	1.6 oz	45.3 grams
Spectral Noise @ 1000 Hz	2 µg/√Hz		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Mounting		1/4-28 Integral Stud
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)		2 Pin mini-MIL
Case Isolation	>10 <sup>8</sup> ohm		Resonant Frequency	2,040,000 CPM	34000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

[www.ctconline.com](http://www.ctconline.com) | [sales@ctconline.com](mailto:sales@ctconline.com) | 585-924-5900