

# AC146 Series

Magnet Mount Accelerometer, Side Exit mini-MIL, 100 mV/g



## Product Features

Standard, Route-Based Sensor

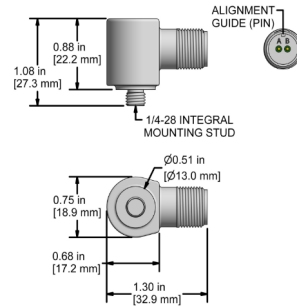
Excellent Sensor for Trending

- ▶ Specifically Designed to Use with MH128-1A Magnet
- ▶ Comfortable Ergonomic Design Makes Data Collection Easy
- ▶  $\pm 50$  g, Peak Dynamic Range

### AC146-1D

2 Pin mini-MIL Connector

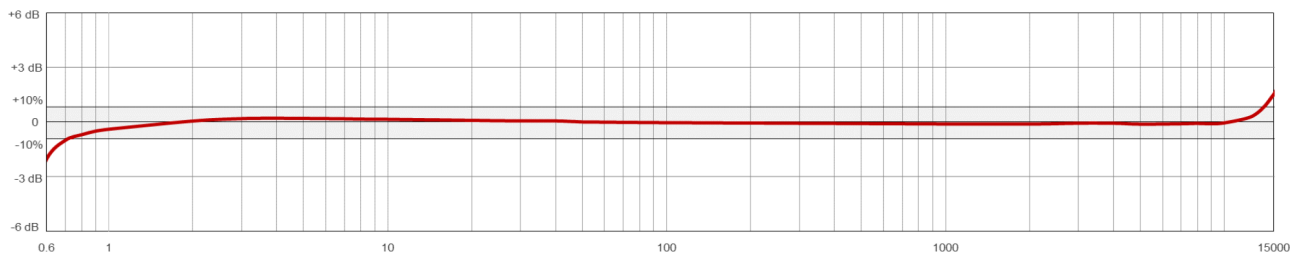
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

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

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