

AC196 Series



Compact Multipurpose Accelerometer, Top Exit 2 Pin Connector, M8 Integral Stud, 100 mV/g, ±10%

VIBRATION ANALYSIS HARDWARE



Product Features

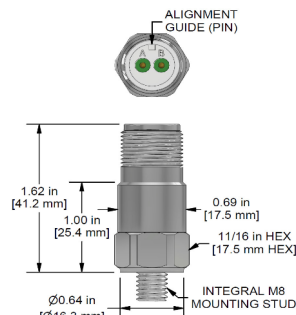
High Performance in an Affordable, Compact Sensor

Very Low Noise & Superior RF Immunity

- ▶ 100 mV/g Sensitivity ± 10%
- ▶ M8 Integral Stud

AC196-1D 2 Pin Connector

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	Environmental		
Frequency Response (±3dB)	24-780,000 CPM	0,4-13000 Hz	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±10%)	60-540,000 CPM	1,0-9000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±5%)	600-300,000 CPM	10,0-5000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 80 g, peak	Sealing	Welded, Hermetic	
Electrical			Physical		
Settling Time		< 2 Seconds	Sensing Element	PZT Ceramic	
Voltage Source (IEPE)		18-30 VDC	Sensing Structure	Shear Mode	
Constant Current Excitation		2-10 mA	Weight	1.6 oz	45 grams
Spectral Noise @ 10 Hz		8 µg/√Hz	Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz		4 µg/√Hz	Mounting	Integral Stud	
Spectral Noise @ 1000 Hz		2 µg/√Hz	Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance		< 100 ohm	Resonant Frequency	1,560,000 CPM	26000 Hz
Bias Output Voltage		10-14 VDC	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation		>10 ⁸ ohm	Mounting Hardware	M8 Integral Stud	
			Calibration Certificate	CA10	

Typical Frequency Response

*6 dB

