## **AC202 Series**



Premium Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±5%



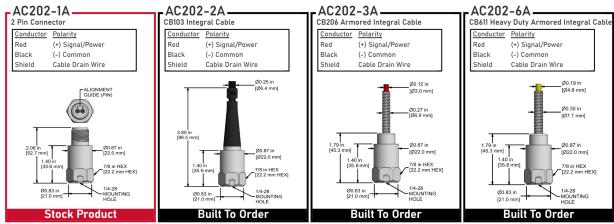


## **Product Features**

High Performance Sensor for Demanding Applications

High Dynamic Range with Excellent Frequency Response

- ▶ ±80 g, Dynamic Range
- ► Excellent Bias Stability throughout operating temperature range



Specifications	Standard		Metric	Specifications	Standard		Metric
Part Number	AC202		M/ or M8/AC202	Environmental			
Sensitivity (±5%)		100 mV/g		Operating Temperature Range	-58 to 250 °F		-50 to 121 °C
Frequency Response (±3dB)	30-900,000 CPM		0,5-15000 Hz	Maximum Shock Protection		5,000 g, peak	
Frequency Response (±10%)	60-420,000 CPM		1,0-7000 Hz	Electromagnetic Sensitivity		CE	
Dynamic Range		± 80 g, peak		Sealing		Welded, Hermetic	
	*V:	source $\geq$ 22V, 12Vbias	5	Submersible Depth	200 ft.		60 m
Electrical				<u>Physical</u>			
Settling Time		<2.0 seconds		Sensing Element		PZT Ceramic	
Voltage Source (IEPE)		18-30 VDC		Sensing Structure		Shear Mode	
Constant Current Excitation		2-10 mA		Weight	3.2 oz		90 grams
Spectral Noise @ 10 Hz		8 μg/√Hz		Case Material		316L Stainless	
Spectral Noise @ 100 Hz		4 μg/√Hz		Case Material		Steel	
Spectral Noise @ 1000 Hz		2 μg/√Hz		Mounting Thread		1/4-28 Blind	
Output Impedance		<100 ohm		Mounting Till ead		Tapped Hole	
Bias Output Voltage		10-14 VDC		Connector (Non-Integral)		2 Pin MIL-C-5015	
Case Isolation		>10 <sup>8</sup> ohm		Resonant Frequency	1,560,000 CPM		26000 Hz
Dielectric Breakdown Voltage		SIL 2		Mounting Torque	2 to 5 ft. lbs.		2,7 to 6,8 Nm
				Manustina Handrida Constitut	1// 20 Ctd		M6x1 or M8x1.25
				Mounting Hardware Supplied	1/4-28 Stud		Adapter Stud
				Calibration Certificate		CA10	

Typical Frequency Response

\*\*3 dB

\*\*10%

-10%

-3 dB