

# MA202-1A Series

Premium, High Voltage Isolated Molded Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±5%

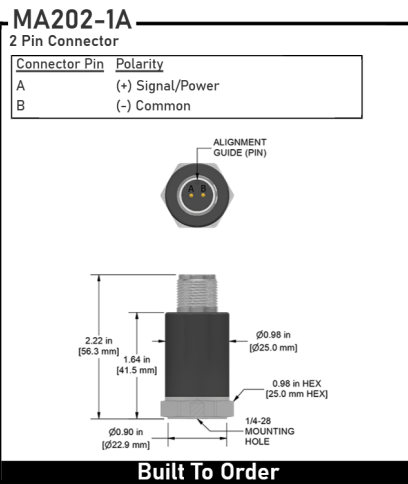


## Product Features

10 kV DC (7 kV AC) Electrical Isolation between the base and internal electronics

Stainless Steel Base & Connector

- ▶ For Use With CTC Grounded Connectors for Added Noise Protection: A2AG or A2NG



Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	MA202-1A	M/ or M8/MA202-1A	<b>Environmental</b>		
Sensitivity (±5%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	0.5 Hz - 13.5 kHz	30 - 810,000 CPM	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	1 Hz - 7.5 kHz	60 - 450,000 CPM	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Molded, Fully Encapsulated	
<b>Electrical</b>			SIL Rating	SIL 2	
Settling Time	<2 Seconds		<b>Physical</b>		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	8 µg/√Hz		Weight	3.2 oz	90.7 grams
Spectral Noise @ 100 Hz	4 µg/√Hz		Case Material	Polycarbonate	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,560,000 CPM	26000 Hz
Case Isolation	>10 <sup>8</sup> ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

## Typical Frequency Response

