

AC207-M12A Series

High Temperature IEPE Accelerometer, 325 °F (162 °C) Maximum Temperature, Top Exit 4 Pin M12 Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

High Temperature (325 °F) Sensor

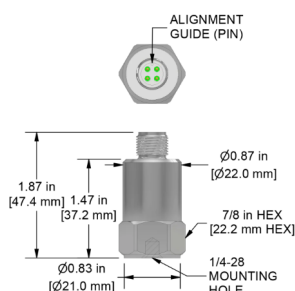
Proven Sensor for Standard High-Temperature Applications

- ▶ Resistant to Temperatures Up to 325 °F (162 °C)
- ▶ Great for Extended Use at High Temperatures
- ▶ Improved RF Immunity

AC207-M12A

4 Pin Connector

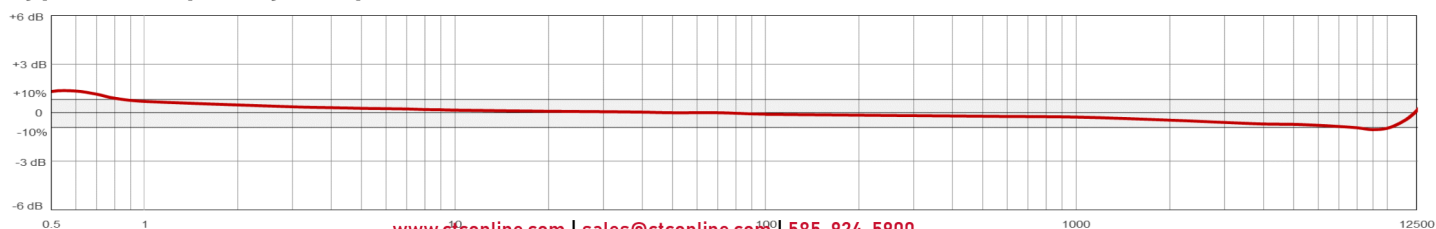
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC207-M12A	M/ or M8/AC207-M12A	<u>Environmental</u>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 325 °F	-50 to 162 °C
Frequency Response (±3dB)	30-750,000 CPM	0.5-12500 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	±80 g, peak *Vsource ≥ 22V, 12Vbias		Electromagnetic Sensitivity	CE	
Transverse Sensitivity	≤5%		Sealing	Welded, Hermetic	
<u>Electrical</u>			SIL Rating	SIL 2	
Settling Time	<2.5 Seconds		<u>Physical</u>		
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 oz.	86 grams
Spectral Noise @ 100 Hz	.82 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	.3 µg/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Output Impedance	<100 ohm		Connector (Non-Integral)	4 Pin M12	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation	>10 ⁸ 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



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