

TA202-M12A Series



Dual Output Sensor, Temperature & Acceleration, Top Exit 4 Pin M12 Connector, 100 mV/g, 10 mV/°C, ±10%

VIBRATION ANALYSIS HARDWARE



Product Features

High Performance in a Low Cost Sensor

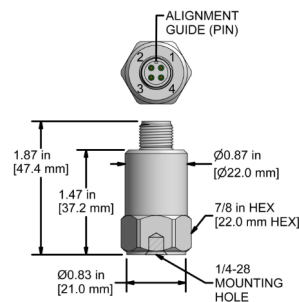
Helps to Detect Bearing Defects and Temperature Changes

- ▶ Temperature (10 mV/°C) and Acceleration (100 mV/g) Outputs in One Sensor via a 4 Pin M12 Connection
- ▶ Popularly sold with SC300 Series Signal Conditioners with built-in Temperature Output

TA202-M12A

4 Pin Connector

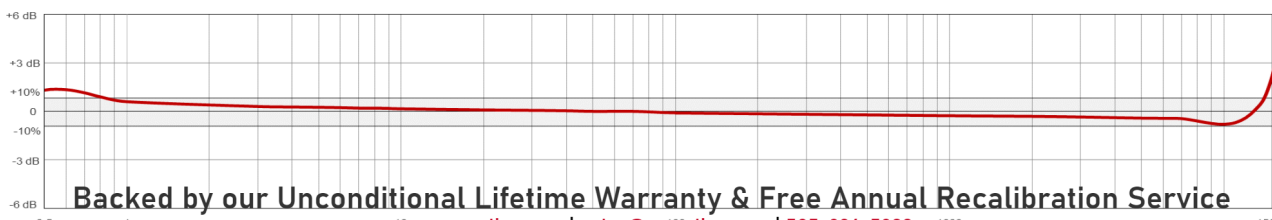
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	(+) Temperature Voltage



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA202-M12A	M/ or M8/TA202-M12A	Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-720,000 CPM	2.0-12000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 80 g, peak *Vsource ≥ 22V, 12Vbias	Sealing		IP68
Temperature Measurement Range	-40 to 250 °F	-40 to 121 °C	Submersible Depth	200 ft.	60 m
Temperature Output		10 mV/°C	SIL Rating		SIL 2
Temperature Sensor		750 mV = 25 °C (±1)	Physical		
Electrical			Sensing Element		PZT Ceramic
Settling Time		<2.5 seconds	Sensing Structure		Shear Mode
Voltage Source (IEPE)		18-30 VDC	Weight	3.2 oz	90 grams
Constant Current Excitation		2-10 mA	Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz		14 µg/√Hz	Mounting Thread		1/4-28 Blind Tapped Hole
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Connector (Non-Integral)		4 Pin M12
Spectral Noise @ 1000 Hz		2 µg/√Hz	Resonant Frequency	1,380,000 CPM	23000 Hz
Output Impedance		<100 ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Case Isolation		>10 ⁹ ohm	Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service