

# TR102-M12A Series

RTD Sensor, 100 mV/g, with 4 pin M12 top connector



VIBRATION ANALYSIS HARDWARE



## Product Features

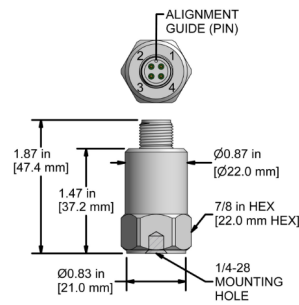
For use with CTC M4TR Connector

- ▶ Base Mounted PT100 RTD Temperature Sensor
- ▶ Temperature and Acceleration in One Sensor
- ▶ 4 Pin M12 Connection

### TR102-M12A

4 Pin Connector

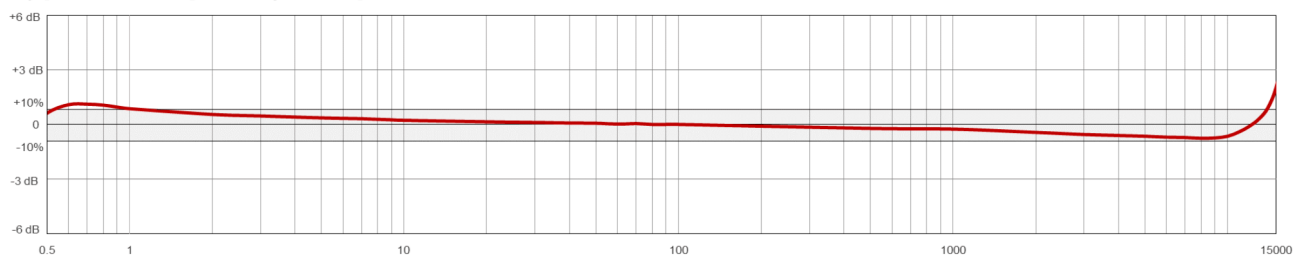
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	RTD (+)
4	RTD (-)



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TR102-M12A	M/TR102-M12A	<b>Environmental</b>		
Sensitivity (±10%)		100 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-900,000 CPM	0.5 Hz-15 kHz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-600,000 CPM	2 Hz-10 kHz	Electromagnetic Sensitivity		CE Pending
Dynamic Range		± 50g, peak	Sealing		Welded, Hermetic
Temperature Measurement Range	-40 to 250°F	-40 to 121°C	<b>Physical</b>		
Temperature Sensor		PT100 RTD	Sensing Element		PZT Ceramic
<b>Electrical</b>			Sensing Structure		Shear Mode
Settling Time		< 2.5 Seconds	Weight	3.2 oz	90 grams
Voltage Source (IEPE)		18-30 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Mounting		1/4-28 UNF
Spectral Noise @ 10 Hz		8 µg/√Hz	Connector (Non-Integral)		4 Pin M12
Spectral Noise @ 100 Hz		0.82 µg/√Hz	Resonant Frequency	1,380,000 CPM	23 kHz
Spectral Noise @ 1000 Hz		0.3 µg/√Hz	Mounting Torque	2 to 5 ft.-lbs.	2,7 to 6,8 Nm
Output Impedance		< 100 ohm	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Bias Output Voltage		10-14 VDC	Calibration Certificate		CA10
Case Isolation		> 10 <sup>8</sup> ohm			

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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