

TR102-M12A Series

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



Actual
Product
Size
Shown



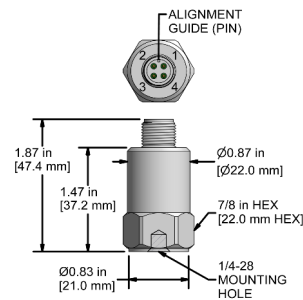
Product Features

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

TR102-M12A

4 Pin Connector

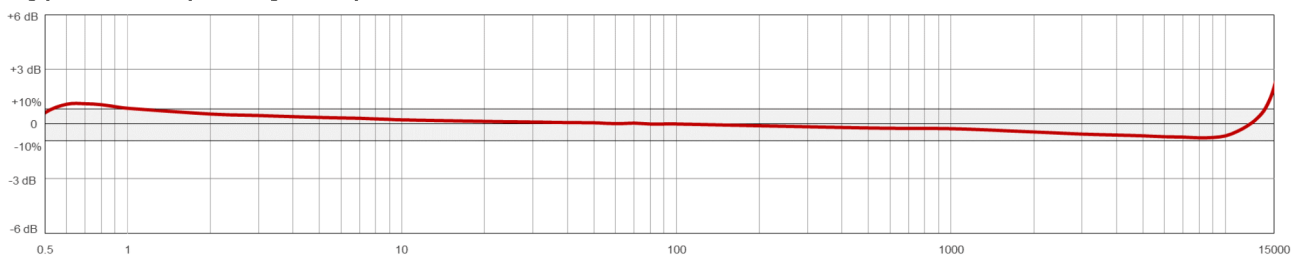
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	RTD (+)
4	RTD (-)



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TR102-M12A	M/TR102-M12A	Environmental		
Sensitivity ($\pm 10\%$)	100 mV/g		Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response ($\pm 3\text{dB}$)	30-900,000 CPM	0.5 Hz-15 kHz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ($\pm 10\%$)	120-600,000 CPM	2 Hz-10 kHz	Electromagnetic Sensitivity	CE Pending	
Dynamic Range	$\pm 50\text{g}$, peak		Sealing	Welded, Hermetic	
Temperature Measurement Range	-40 to 250°F	-40 to 121°C	Physical		
Temperature Sensor	PT100 RTD		Sensing Element	PZT Ceramic	
Electrical			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 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector	4 Pin M12	
Spectral Noise @ 100 Hz	0.82 $\mu\text{g}/\sqrt{\text{Hz}}$		Resonant Frequency	1,380,000 CPM	23 kHz
Spectral Noise @ 1000 Hz	0.3 $\mu\text{g}/\sqrt{\text{Hz}}$		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	> 10^8 ohm				

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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