

TR207-M12A Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

Base Mounted PT100 RTD Temperature Sensor with Acceleration Output

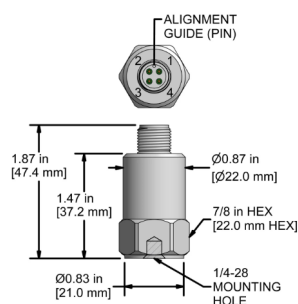
View [2 Wire vs. 4 Wire RTD Systems Explained](#)

- ▶ Compatible with CTC M4RTR4 (PPS) and MV4R4 (Viton Boot) Connectors for 4 Wire RTD Systems
- ▶ Compatible with CTC M4RTR2 (PPS), and MV4R2 (Viton Boot) Connectors for 2 Wire RTD Systems
- ▶ CTC recommends 4-wire RTD systems for highest temperature measurement accuracy, where supported by the measurement system

TR207-M12A

4 Pin Connector

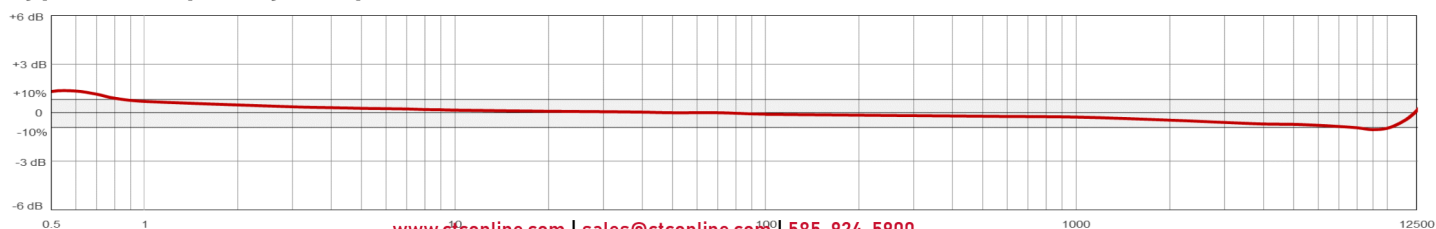
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	RTD (+)
4	RTD (-)



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TR207-M12A	M/ or M8/TR207-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	
Frequency Response (±10%)	120-360,000 CPM	2.0-6000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	±80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Temperature Measurement Range	-58 to 325 °F	-50 to 162 °C	SIL Rating	SIL 2	
Temperature Sensor	PT100 RTD		<u>Physical</u>		
Transverse Sensitivity	≤5%		Sensing Element	PZT Ceramic	
<u>Electrical</u>			Sensing Structure	Shear Mode	
Settling Time	<2.5 Seconds		Case Material	316L Stainless Steel	
Voltage Source	18-30 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Constant Current Excitation	2-10 mA		Connector (Non-Integral)	4 Pin M12	
Spectral Noise @ 10 Hz	8 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 100 Hz	.82 µg/√Hz		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Spectral Noise @ 1000 Hz	.3 µg/√Hz		Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Output Impedance	<100 ohm		Calibration Certificate	CA10	
Bias Output Voltage	10-14 VDC				
Case Isolation	>10 ⁹ ohm				

Typical Frequency Response



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