

TR102-M12A Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

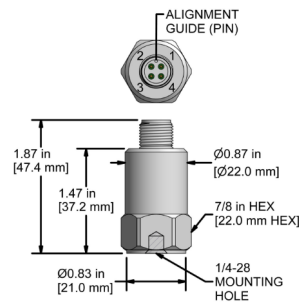
For use with CTC M4TR Connector & CB123 cabling

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

TR102-M12A

4 Pin Connector

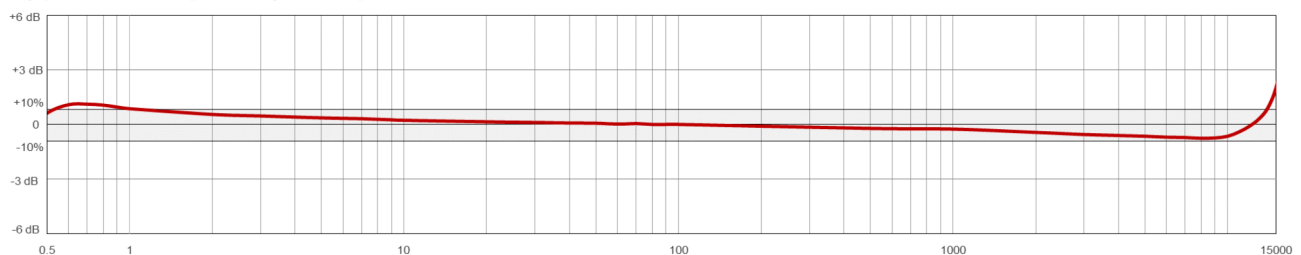
| Connector Pin | Polarity |
|---------------|------------------|
| 1 | (+) Signal/Power |
| 2 | (-) Common |
| 3 | RTD (+) |
| 4 | RTD (-) |



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-------------------------------|-----------------|-----------------------|-----------------------------|-----------------|----------------------|
| Part Number | TR102-M12A | M/TR102-M12A | Environmental | | |
| Sensitivity (±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 | 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 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 ⁸ ohm | | | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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