

TA284-M12A Series



VIBRATION ANALYSIS HARDWARE

Dual Output Sensor, Temperature & Acceleration, M8 Captive Bolt, Side Exit 4 Pin M12 Connector, 100 mV/g, 10 mV/°C, ±10%



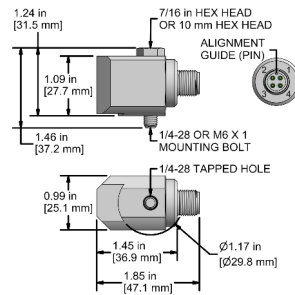
Product Features

- Temperature Output 10 mV/°C
- High Performance in a Low Cost Sensor
- ▶ 4 Pin M12 Connector, M8 Captive Bolt
- ▶ Temperature and Acceleration in One Sensor
- ▶ Requires Multi-Conductor Cable

TA284-M12A

4 Pin Connector

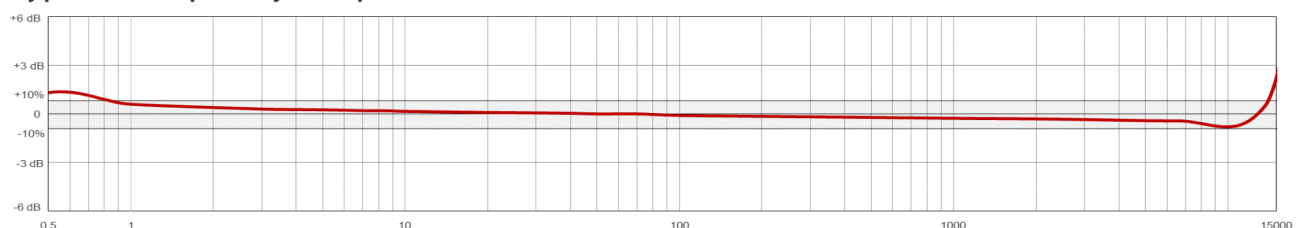
| Connector Pin | Polarity |
|---------------|-------------------------|
| 1 | (+) Signal/Power |
| 2 | (-) Common |
| 3 | Not Used |
| 4 | (+) Temperature Voltage |



Stock Product

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-------------------------------|-----------------|----------------------|-----------------------------|-----------------|----------------------|
| Part Number | TA284-M12A | | Environmental | | |
| Sensitivity (±10%) | | 100 mV/g | Temperature Range | -40 to 250°F | -40 to 121°C |
| Frequency Response (±3dB) | 30-900,000 CPM | 0.5-15000 Hz | Maximum Shock Protection | | 5,000 g, peak |
| Frequency Response (±10%) | 120-600,000 CPM | 2.0-10000 Hz | Electromagnetic Sensitivity | | CE |
| Dynamic Range | | ± 50 g, peak | Sealing | | IP68 |
| Temperature Measurement Range | -40 to 250°F | -40 to 121°C | Submersible Depth | 200 ft. | 60 m |
| Temperature Output | | 10 mV/°C | Physical | | |
| Temperature Sensor | | 750 mV = 25 °C (±1) | Sensing Element | | PZT Ceramic |
| Electrical | | | Sensing Structure | | Shear Mode |
| Settling Time | | <2.5 seconds | Weight | 6.3 oz | 180 grams |
| Voltage Source (IEPE) | | 18-30 VDC | Case Material | | 316L Stainless Steel |
| Constant Current Excitation | | 2-10 mA | Mounting | | M8 |
| Spectral Noise @ 10 Hz | | 14 µg/√Hz | Connector (Non-Integral) | | 4 Pin M12 |
| Spectral Noise @ 100 Hz | | 2.3 µg/√Hz | Resonant Frequency | 1,380,000 CPM | 23000 Hz |
| Spectral Noise @ 1000 Hz | | 2 µg/√Hz | Mounting Torque | 2 to 5 ft. lbs. | 2.7 to 6.8 Nm |
| Output Impedance | | <100 ohm | Mounting Hardware | | M8 Captive Bolt |
| 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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