

TA234 Series

Dual Output Sensor, Temperature & Acceleration, Side Exit 3 Pin Connector, 500 mV/g, 10 mV/°C, ±10%



VIBRATION ANALYSIS HARDWARE

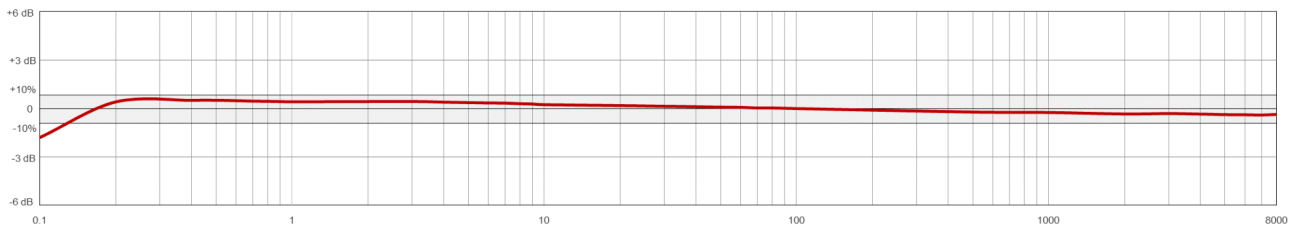


Product Features

- Temperature Output 10 mV/°C
- Acceleration Output 500 mV/g
- ▶ Standard 3 Pin MIL Connection
- ▶ Temperature and Acceleration in One Sensor
- ▶ Compatible with All Major Vibration Data Collection Systems Except Commtest vbOnline™ and GE SCOUT Series Online Systems

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA234		Environmental		
Sensitivity (±10%)		500 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	6-480,000 CPM	0,1-8000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 10 g, peak	Sealing		Welded, Hermetic
Temperature Measurement Range	-40 to 250°F	-40 to 121°C	Physical		
Temperature Output		10 mV/°C	Sensing Element		PZT Ceramic
Temperature Sensor		750 mV = 25 °C (±1)	Sensing Structure		Shear Mode
Electrical			Weight	5.6 oz	160 grams
Settling Time		<2.5 seconds	Case Material		316L Stainless Steel
Voltage Source (IEPE)		18-30 VDC	Mounting		1/4-28
Constant Current Excitation		2-10 mA	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 10 Hz		14 µg/√Hz	Resonant Frequency	960,000 CPM	16000 Hz
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Spectral Noise @ 1000 Hz		2 µg/√Hz	Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Output Impedance		<100 ohm	Calibration Certificate		CA10
Bias Output Voltage		10-14 VDC			
Case Isolation		>10 ⁹ ohm			

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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