

# TA253 Series



VIBRATION ANALYSIS HARDWARE

Low Cost, Low G, Dual Output Sensor, Temperature & Acceleration, Top Exit 3 Pin Connector, 500 mV/g, 10 mV/°C, ±20%



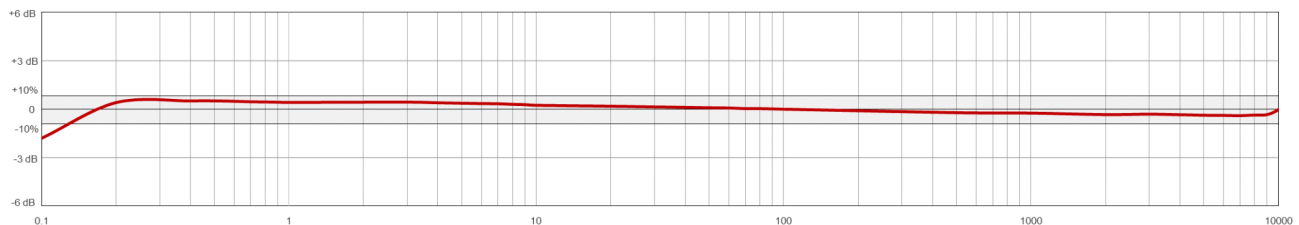
## Product Features

Compatible with All Major Vibration Data Collection Systems Except Commtest vbOnline™ and GE SCOUT Series Online Systems

- ▶ Temperature Output 10 mV/°C, Acceleration Output 500 mV/g
- ▶ ±10 g, Peak Dynamic Range
- ▶ 0,1 - 10000 Hz (6 - 600,000 CPM) Frequency Response

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA253	M/TA253	<b>Environmental</b>		
Sensitivity (±20%)		500 mV/g	Temperature Range	-40°F to 250°F	-40°C to 121°C
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 10 g, peak	Sealing		Welded, Hermetic
Temperature Measurement Range	-40°F to 250°F	-40°F to 121°C	<b>Physical</b>		
Temperature Output		10 mV/°C	Sensing Element		PZT Ceramic
<b>Electrical</b>			Sensing Structure		Shear Mode
Settling Time	5 Seconds		Weight	3.7 oz	104 grams
Voltage Source (IEPE)	18-30 VDC		Case Material		316L Stainless Steel
Constant Current Excitation	2-10 mA		Mounting		1/4-28
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 100 Hz	.2 µg/√Hz		Resonant Frequency	960,000 CPM	16000 Hz
Spectral Noise @ 1000 Hz	.12 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 <sup>8</sup> ohm				

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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