

# TA254 Series

Low Cost Dual Output Sensor, Temperature & Acceleration, Side Exit 3 Pin Connector, 100 mV/g, 10 mV/°C, ±15%



VIBRATION ANALYSIS HARDWARE



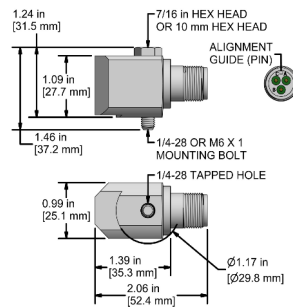
## Product Features

- Temperature Output 10 mV/°C
- High Performance in a Low Cost Sensor
- ▶ Standard 3 Pin MIL Connection
- ▶ Requires Multi-Conductor Cable
- ▶ Affordably Priced

### TA254-1A

3 Pin Connector

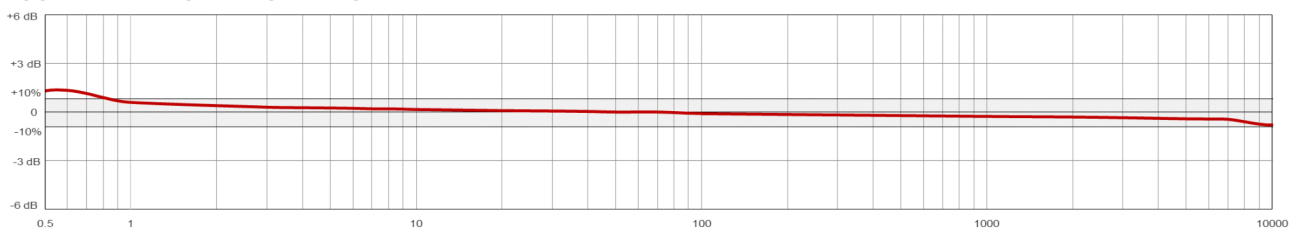
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA254		<b>Environmental</b>		
Sensitivity (±15%)		100 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	30-600,000 CPM	0,5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-300,000 CPM	2,0-5000 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	<b>Physical</b>		
Temperature Sensor		750 mV = 25 °C (±1)	Sensing Element		PZT Ceramic
<b>Electrical</b>			Sensing Structure		Shear Mode
Settling Time		<2.5 seconds	Weight	5.6 oz	160 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		14 µg/√Hz	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 100 Hz		2.3 µg/√Hz	Resonant Frequency	1,260,000 CPM	21000 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	1/4-28 Captive Bolt	M6x1 Captive Bolt
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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