

TA231 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

Temperature and Acceleration in One Sensor

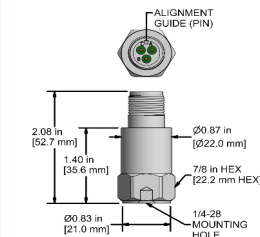
Temperature Output 10 mV/°C, Acceleration Output 10 mV/g

- ▶ Standard 3 Pin MIL Connection
- ▶ High Performance in a Low Cost Sensor
- ▶ Requires Multi-Conductor Cable

TA231-1A

3 Pin Connector

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

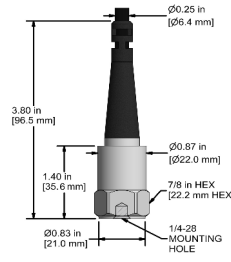


Stock Product

TA231-2A

CB105 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire

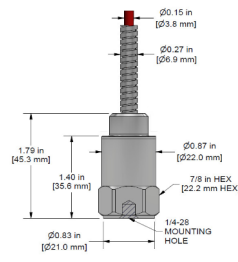


Built To Order

TA231-3A

CB218 Armored Integral Cable

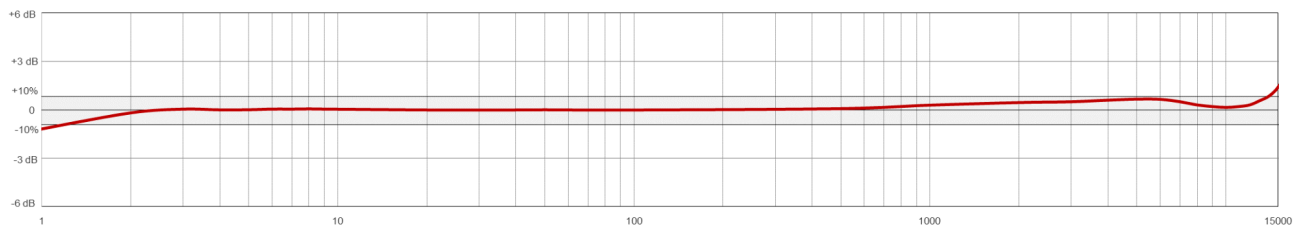
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA231		Environmental		
Sensitivity (±10%)		10 mV/g	Temperature Range	-40 to 250°F	-40 to 121°C
Frequency Response (±3dB)	60-900,000 CPM	1,0-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120-360,000 CPM	2,0-6000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 500 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	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
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	1,380,000 CPM	23000 Hz
Spectral Noise @ 1000 Hz		2 µg/√Hz	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Case Isolation		>10 ⁹ ohm	Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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