

TA202 Series

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



Product Features

Temperature Output 10 mV/°C

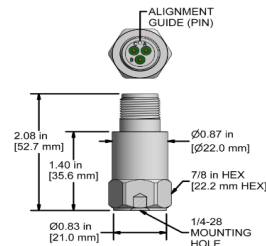
High Performance in a Low Cost Sensor

- ▶ Standard 3 Pin MIL Connection
- ▶ Temperature and Acceleration in One Sensor
- ▶ Requires Multi-Conductor Cable

TA202-1A

3 Pin Connector

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

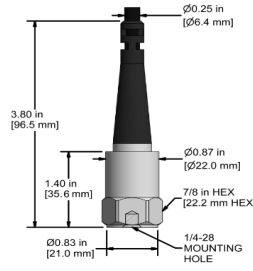


Stock Product

TA202-2A

CB105 Integral Cable

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

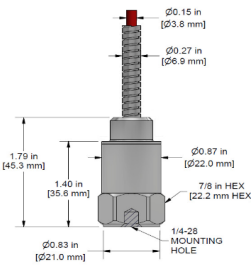


Built To Order

TA202-3A

CB218 Amored Integral Cable

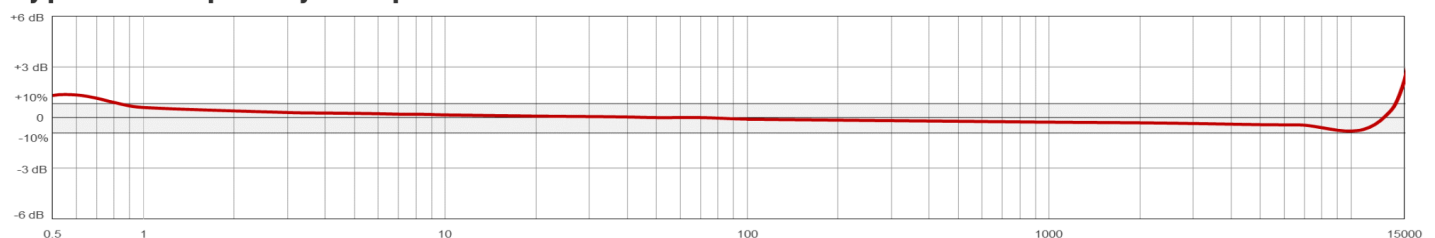
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA202	M/TA202	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%)	120-720,000 CPM	2.0-12000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 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
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 ⁸ ohm				

Typical Frequency Response



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