

TA201 Series

Premium Dual Output Sensor, Temperature & Acceleration, Top Exit 3 Pin Connector, 100 mV/g, 10 mV/°C, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

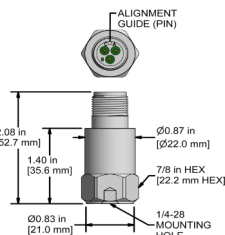
Premium Performance Sensor

Helps to Detect Bearing Defects and Temperature Changes

- ▶ Temperature (10 mV/°C) and Acceleration (100 mV/g) Outputs in One Sensor via a Standard 3 Pin MIL Connection
- ▶ Popularly Sold With SC300 Series Signal Conditioners with Built-In Temperature Output
- ▶ -6N Integral Cable Option Features Food Safe FDA Compliant 21 CFR 177.1330 Polyolefin Heat Shrink

TA201-1A 3 Pin Connector

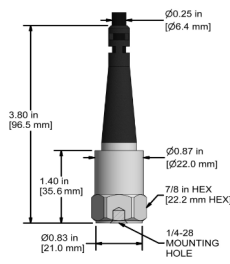
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

TA201-2A CB105 Integral Cable

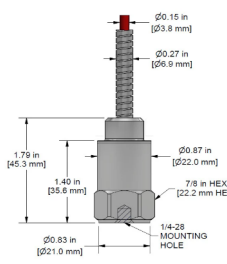
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature
Shield	Cable Drain Wire



Built To Order

TA201-3A CB218 Amored Integral Cable

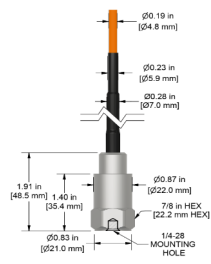
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature
Shield	Cable Drain Wire



Built To Order

TA201-6N CB119 FEP Jacketed Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA201	M/ or M8/TA201	<u>Environmental</u>		
Sensitivity (±5%)	100 mV/g		Operating 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%)	60-420,000 CPM	1.0-7000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Temperature Measurement Range	-40 to 250 °F	-40 to 121 °C	Submersible Depth	200 ft.	60 m
Temperature Output	10 mV/ °C		<u>Physical</u>		
Temperature Sensor	750 mV ± 25 °C (±1)		Sensing Element	PZT Ceramic	
Transverse Sensitivity	≤5%		Sensing Structure	Shear Mode	
<u>Electrical</u>			Weight	3.2 oz	90 grams
Settling Time	<2.5 seconds		Case Material	316L Stainless Steel	
Voltage Source	18-30 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Constant Current Excitation	2-10 mA		Connector (Non-Integral)	3 Pin MIL-C-5015	
Spectral Noise @ 10 Hz	14 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 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 Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Output Impedance	<100 ohm		Calibration Certificate	CA10	
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

