TA201-M12A Series

Premium Dual Output Sensor, Temperature & Acceleration, Top Exit 4 Pin M12 Connector, 100 mV/g, 10 mV/°C, ±5%

VIBRATION ANALYSIS HARDWARE

CE

Product Features

Premium Performance Sensor

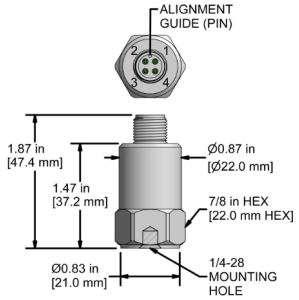
Helps to Detect Bearing Defects and Temperature Changes

- Temperature (10 mV/°C) and Acceleration (100 mV/g) Outputs in One Sensor via a 4 Pin M12 Connection
- Popularly Sold with SC300 Series Signal Conditioners with Built-In Temperature Output
- Compatible with M3T Connector

TA201-M12A

4 Pin Connector

Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	(+) Temperature Voltage



Stock Product

Specifications	Standard	Metric
Part Number	TA201-M12A	M/ or M8/TA201-M12A
Sensitivity (±5%)	100 mV/g	
Frequency Response (±3dB)	30-900,000 CPM	0,5-15000 Hz
Frequency Response (±10%)	120-720,000 CPM	2,0-12000 Hz
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias	
Temperature Measurement Range	-40 to 250 °F	-40 to 121 °C
Temperature Output	10 mV/°C	
Temperature Sensor	750 mV = 25 °C (±1)	
Transverse Sensitivity	≤5%	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	14 µg/√Hz	
Spectral Noise @ 100 Hz	2.3 µg/√Hz	
Spectral Noise @ 1000 Hz	2 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10^8 ohm	

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.2 oz	90 grams
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28 Blind Tapped Hole	
Connector (Non-Integral)	4 Pin M12	
Resonant Frequency	1,380,000 CPM	23000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Calibration Certificate	CA10	

Typical Frequency Response