VT204 Series

Dual Output Piezo Velocity Sensor, Velocity & Temperature Output, Side Exit 3 Pin Connector, 100 mV/in/sec, 10 mV/°C, ±10%

VIBRATION ANALYSIS HARDWARE

CE

Product Features

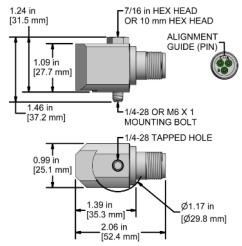
Velocity and Temperature Output in One Sensor

High Performance, Dual Output Sensor

- ±50 in/sec, Peak Dynamic Range
- Integrates to Velocity in the Sensor
- 3 Pin MIL Connection or Integral Cable
  Note: Integral Cable Options are only for Permanent Monitoring Applications

VT204-1A
3 Pin Connector

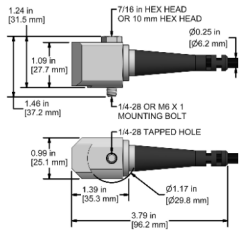
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

VT204-2A
Integral Cable

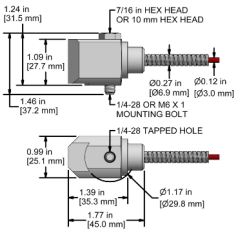
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

VT204-3A
Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	VT204	M/VT204
Sensitivity (±10%)	100 mV/in/sec	
Frequency Response (±3dB)	90-420,000 CPM	1,5-7000 Hz
Frequency Response (±10%)	120-240,000 CPM	2,0-4000 Hz
Dynamic Range	± 50 in/sec. pk	
Electrical		
Settling Time	<4 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	25 µg/√Hz	
Spectral Noise @ 100 Hz	2 µg/√Hz	
Spectral Noise @ 1000 Hz	0.5 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10^8 ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	5.6 oz	159 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (Non-Integral)	3 Pin MIL-C-5015	
Resonant Frequency	1,320,000 CPM	22000 Hz
Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 NM
Mounting Hardware	1/4-28 Captive	M6x1 Captive