

VT202 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

Velocity and Temperature Output in One Sensor

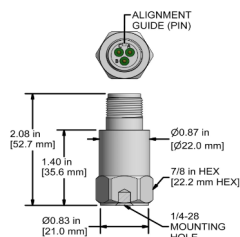
High Performance, Dual Output Sensor

- ▶ ±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

VT202-1A

3 Pin Connector

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

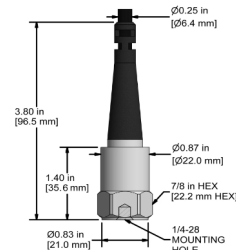


Stock Product

VT202-2A

Integral Cable

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

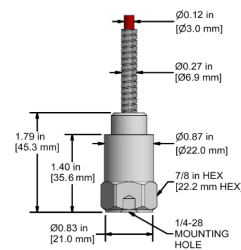


Built To Order

VT202-3A

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	VT202	M/ or M8/VT102	<u>Environmental</u>		
Sensitivity (±10%)	100 mV/in/sec		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	90 to 720,000 CPM	1,5 to 12000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120 to 270,000 CPM	2,0 to 4500 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 in/sec. pk		Sealing	Welded, Hermetic	
Transverse Sensitivity	*Vsource ≥ 22V, 12Vbias	≤5%	Submersible Depth	200 ft.	60 m
<u>Electrical</u>			<u>Physical</u>		
Settling Time	<4 Secondsq		Sensing Element	PZT Ceramic	
Voltage Source	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	3.2 oz	90 grams
Spectral Noise @ 10 Hz	25 µ IPS/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	2 µ IPS/√Hz		Mounting Thread	1/4-28 Blind Tapped Hole	
Spectral Noise @ 1000 Hz	0.5 µ IPS/√Hz		Connector (Non-Integral)	3 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 NM
Case Isolation	>10 ⁸		Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response

