

CM-P Precision Accelerometer With Velocity Output

Precision Accelerometer Industrial, Ceramic Shear IPEE Velocity Output Top Exit

Features

Our line of precision accelerometers with AC Voltage output is designed for use with all types of data collectors, online analysis systems and TSI.

Protecting

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.



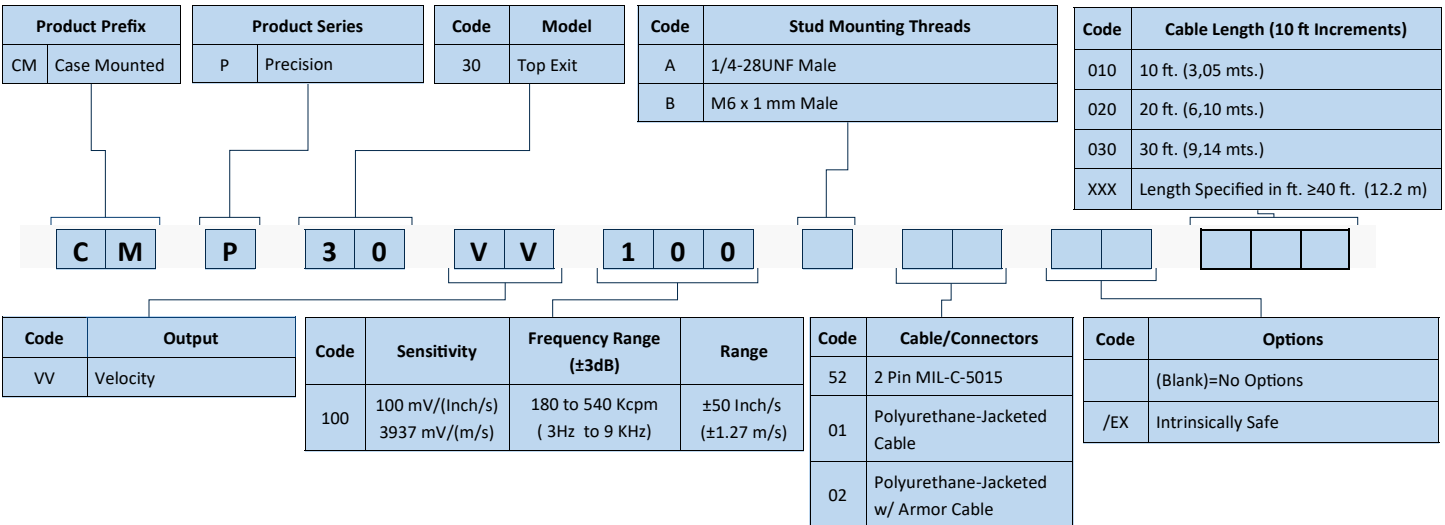
Technical Performance		Mechanical Performance	
Mounted Base Resonance:	1200 Kcpm (20 KHz)	Case Material:	304 Stainless Steel
Measurement Range	See: "How To Order" Table ±10%	Sensing Element/Construction:	Ceramic Shear
Frequency Range (±3 dB) :	See: "How To Order" Table	Mounting Torque:	2 to 5 ft-lb (2.7 to 6.8 Nm)
Transverse Sensitivity:	≤5%	Weight:	3.3 oz (94 gm)
Non-Linearity:	± 1%	Mounting Threads:	See: "How To Order" Table
Broadband Resolution (1 to 10000 Hz)	450 µin/sec (11.4 µm/sec)		
Electrical		Environmental	
Excitation Voltage:	18 to 28 VDC	Overload Limit (Shock)	5000 g pk (49050 m/s ² pk)
Constant Current Excitation	2 to 10 mA	Temperature Range	-65 to +250 °F (-54 to +121 °C)
Settling Time (within 1% of bias)	≤3.0 sec	Temperature Response	See Graph %/°F
Electrical Isolation (Case):	>10 ⁸ Ohm	Enclosure Rating	IP68
Electrical Isolation:	Case		
Spectral Noise (10 Hz)	40 µin/sec/√Hz (1.12 µm/sec/√Hz)		

Wiring	Velocity Output	Ground	Pin C	Pin D
2 Pin Mil-C-5015	Pin A	Pin B	N/A	N/A
Integral Cable	Red	Blue	N/A	N/A

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



How To Order



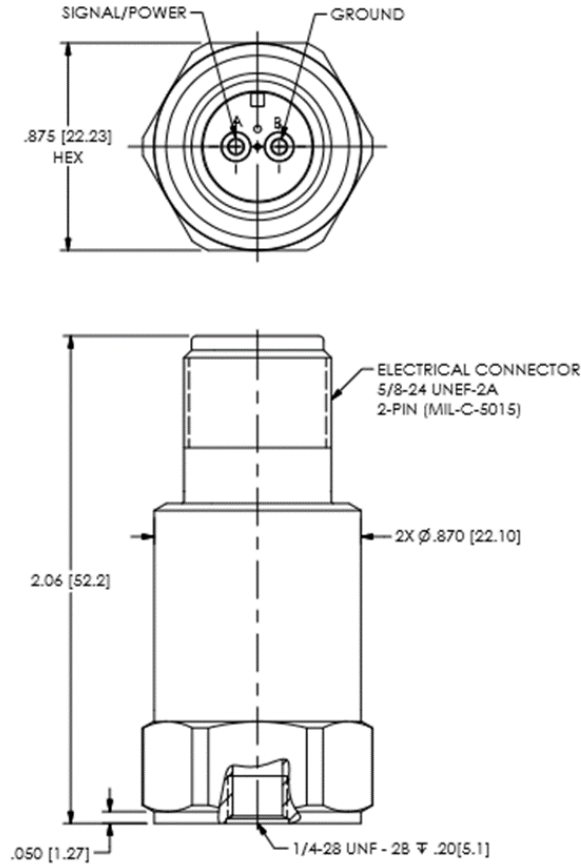
SEC of America
807 E Main St. Durham, NC 27701.
Ph: (919) 533-4920
sales@sec-america.com
www.sec-america.com



CM-P Precision Accelerometer With Velocity Output

Precision Accelerometer Industrial, Ceramic Shear IEPE, Velocity Output Top Exit With Connector

OUTLINE DRAWING MODEL CM-P30VV ACCELEROMETER WITH VELOCITY OUTPUT



Option: EX , Hazardous Area Approval

Temperature Response Graph % / °F

CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4

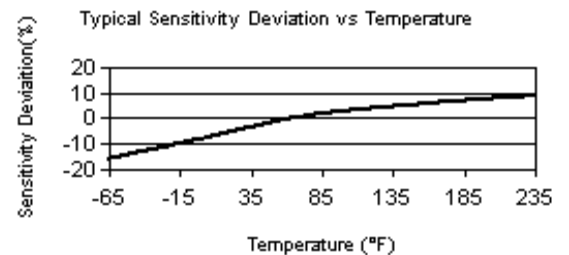
EEx ia IIC T4, $-40^{\circ}\text{C} \leq \text{Ta} \leq 121^{\circ}\text{C}$, II 1 G

CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I

Ex ia IIC T4, AExia IIC, T4

EEx nL IIC T4, $-40^{\circ}\text{C} \leq \text{Ta} \leq 121^{\circ}\text{C}$, II 3 G

All specifications are at room temperature unless otherwise specified.



Contact factory for specific approvals.

Product Notes:

- [1] Conversion Factor $1g = 9.81 \text{ m/s}^2$.
- [2] Typical.
- [3] Zero-based, least-squares, straight line method.
- [4] $1\text{Hz} = 60 \text{ cpm}$ (cycles per minute).
- [5] The high frequency tolerance is accurate within $\pm 10\%$ of the specified frequency.
- [6] 1/4-28 has no equivalent in S.I. units.



SEC of America
807 E Main St. Durham, NC 27701.
Ph: (919) 533-4920
sales@sec-america.com
www.sec-america.com

