



CMCP422VT-IP Series 4-20mA Velocity Sensor, Top Exit with Integral Submersible Cable



Features:

- Loop Powered 4-20mA Output
- IP68 Submersible with Integral Cable
- Velocity RMS or Peak
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- Interfaces Directly to PLC/DCS System
- -13 to 194°F (-25 to 90°C) Temperature Range
- 10 to 1,000 Hz ISO Standard Frequency Range
- Optional Dynamic Output (100mV/g)
- Lifetime Warranty

Typical Applications

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

Technical Performance

Mounted Base Resonance: 5 kHz Min.
 Ranges: See Ordering Information Below
 Contact Factory for Specific Ranges

Dynamic Output: 100mV/g +/-10%
 Frequency Response: 10 Hz to 1 kHz ± 5%
 600 CPM to 60k CPM
 ISO 10816

Isolation: Base Isolated
 Measurement Range: 50g peak
 Transverse Sensitivity: Less than 5% with Faraday Cage

Electrical

Output Current: 4-20mA DC Proportional to RMS or Peak Velocity
 Supply Voltage: 15 to 30 VDC
 Settling Time: 2 Seconds
 Output Impedance: Loop Resistance 600 Ohms Max @ 24VDC
 Case Isolation: >10⁸ Ohms at 500 Volts

Environmental

Operating Temperature Range: -13 to 194°F (25 to 90°C)
 Sealing: IP68
 Maximum Shock: 5000 g

Mechanical

Case Material: 316 Stainless Steel
 Sensing Element: PZT/Compression Type
 Mounting Torque: 5.9 ft. lbs (8Nm)
 Weight: 5.2 Oz (150g)
 Mounting: 1/4"-28 UNF Quick Fit (Supplied with Sensor)
 Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series

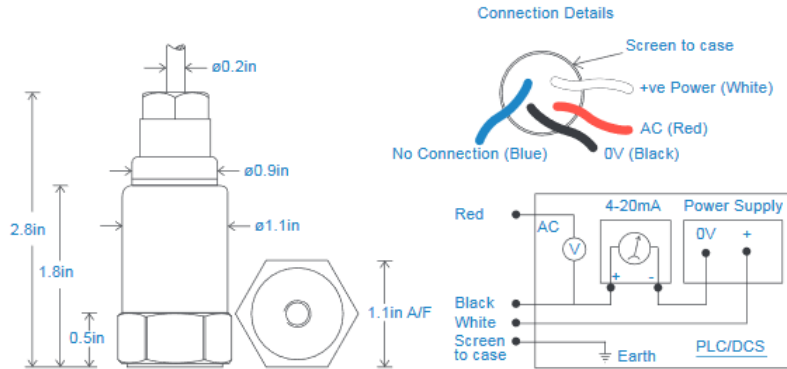
Electrical Ratings:

$U_i=28V$; $I_i = 115mA$; $P_i = 0.65W$

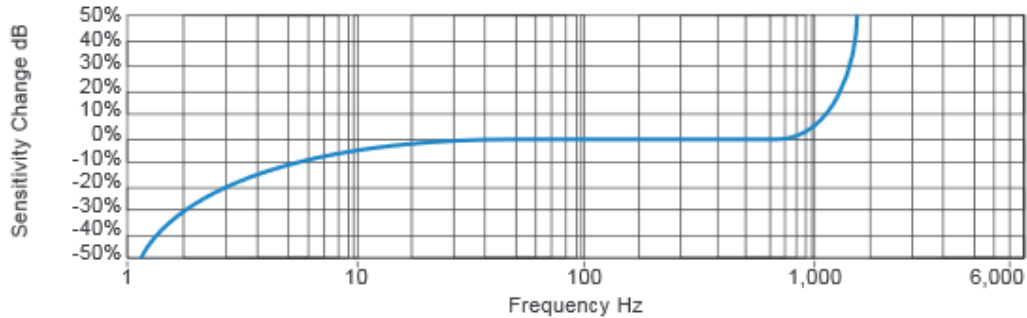
Hazardous Location Ratings:

Class I, II, III, Division 1, 2, Groups A-G, T6 -40°C to +60°C, IP65
 Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C
 Zone 20, AEx, ia IIIC, T80°C, IP65, Da, -40°C to +60°C

Dimensions/Connection Diagram:



Typical Frequency Response



Ordering Information:

CMCP422VT **-XX** **-X** **-XXX** **-XX**
 -01
 -02
 -R
 -P
 -C
 -M12
 -IP

Description

1.00 In/Sec Full Scale (25.4mm/Sec), Without Dynamic Output
 2.00 In/Sec Full Scale (50.8mm/Sec), Without Dynamic Output
 RMS Detection
 Peak Detection
 2 Pin MS 5015 Connector
 M12 Eurofast Connector

Integral IP68 Submersible Cable (5 Meters Long)

Specify Cable Length in Meters after IP (ex. IP10 for 10 meters)