



## CMCP422VT-C Series Loop Powered 4-20mA Velocity Sensor, Top Entry



### Features:

- Loop Powered 4-20mA Output
- Velocity Peak or RMS
- 2 Pin MS 5015 Connector (4-20mA Only Model)
- Optional 100mV/g AC Output (Equipped with 3 Pin MS)
- Interfaces Directly to PLC/DCS System
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- 10Hz to 1kHz ISO Filtering (600 CPM to 60k CPM)
- -13 to 194°F (-25 to 90°C) Temperature Range
- Sealed to IP68

### 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
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:	>10 <sup>8</sup> 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:	Stainless Steel
Sensing Element:	PZT/Compression Type
Mounting Torque:	5.9 ft. lbs (8Nm)
Weight:	5.2 Oz (150g)
Mounting:	1/4"-28 UNF Mounting Stud (Supplied with Sensor)
	Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series
Mating Connector:	2 Pin MIL 5015 MS Connector

**Electrical Ratings:**

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

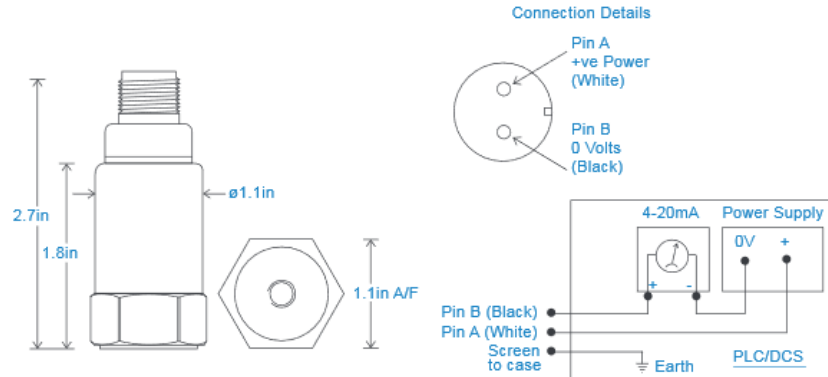
**Hazardous Location Ratings:**

Class I, II, III, Division 1, 2, Groups A-G, T6 -40°C to +60°C, IP65

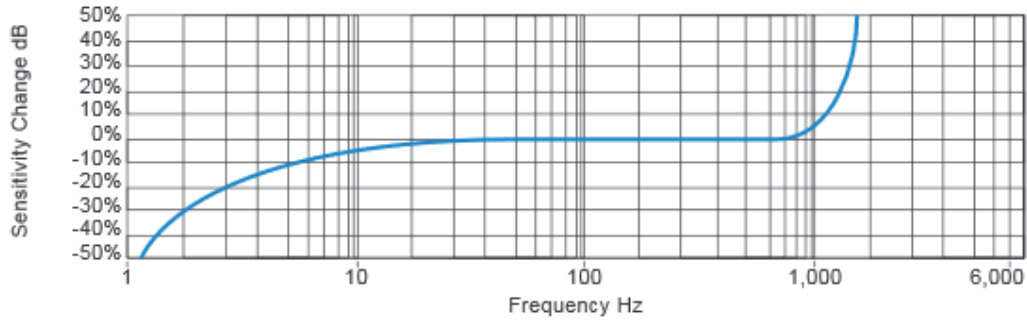
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

Zone 20, AEx, ia IIIC, T80°C, IP65, Da, -40°C to +60°C

**Dimensions**



**Typical Frequency Response**



**Ordering Information:**

CMCP422VT	-XX	-X	-XXX	Description
	-01			1.00 In/Sec Full Scale (25.4mm/Sec)
	-02			2.00 In/Sec Full Scale (50.8mm/Sec)
	-XXX			Specify Full Scale Range
		-R		RMS Detection
		-P		Peak Detection
			-C	<b>2 Pin MS 5015 Connector</b>
			-M12	M12 Eurofast Connector
			-I	Integral Braided Armor Cable

**Similar Products:**



**CMCP422VT-XX-X-I**  
Integral Armored Cable



**CMCP422VT-XX-X-M12**  
M12 Eurofast Connector