

## CMCP422VTT-M12 Series with Temperature

4-20 mA Velocity Sensor, Top Exit, 4-Pin M12 Eurofast Connector



UK  
CA



### Features

- Loop Powered 4-20 mA Output
- Velocity Output with RMS or Peak Detection
- Voltage Temperature Output (0-1 VDC)
- Top Exit with 4-Pin M12 Connector
- Interfaces Directly with Control Systems (PLC/DCS)
- Selectable Full-Scale Ranges
- 10 Hz to 1.0 kHz +/-5% Frequency Response (600 CPM to 60 kCPM)
- Sealed to IP68 (or IP67 with M12 Connector)
- -25 to +120°C (-13 to 248°F) Temperature Rating
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator

### 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
Temperature Output Range:	0-1 VDC = 0-100°C (32 to 212°F)
Frequency Response:	10 Hz to 1.0 kHz ± 5%
	600 CPM to 60k CPM
	ISO 20816
Isolation:	Base Isolated
Measurement Range:	50 g peak
Transverse Sensitivity:	Less than 5% with Faraday Cage

### Electrical

Output Current:	4-20 mA DC Proportional to RMS or Peak Velocity
Supply Voltage:	15 to 30 VDC
Settling Time:	2 Second
Output Impedance:	Loop Resistance 600 Ohm Max @ 24 VDC
Case Isolation:	>10 <sup>8</sup> Ohm at 500 Volt
Ratings:	U <sub>i</sub> =28V; I <sub>i</sub> = 115mA; P <sub>i</sub> = 0.65W

### Environmental

Operating Temperature Range:	-13 to 248°F (-25 to 120°C)
Sealing:	IP68 (IP67 with M12 Connector)
Maximum Shock:	5000 g

### Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Compression Type
Mounting Torque:	5.9 ft. lbs (8 Nm)
Weight:	5.2 Oz (150 g)
Mounting:	1/4-28 UNF Mounting Stud and 1/4-28 to M8x1.25 Adapter Stud (Supplied with Sensor)
Mating Connector:	4 Pin M12 Eurofast Connector

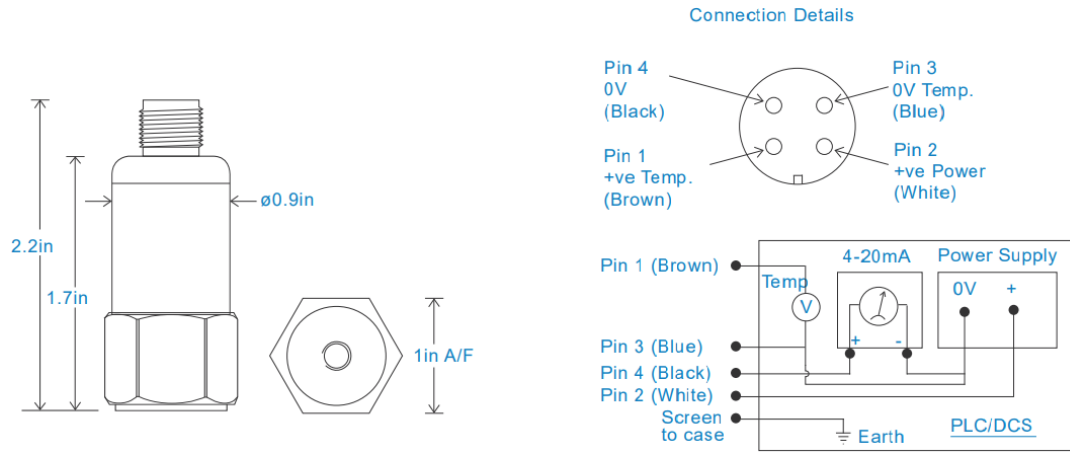
## Hazardous Location Ratings

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

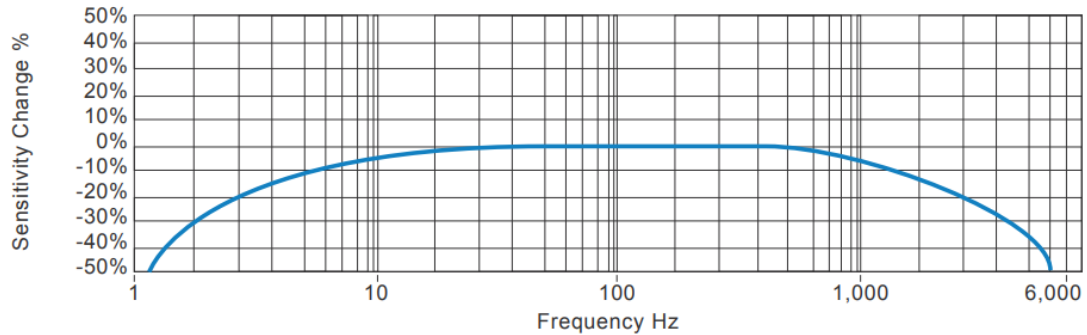
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

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

## Dimensions



## Typical Frequency Response



## Ordering Information

CMCP422VTT	-XX	-X	-XXX	Description
Imperial System	-01			1.00 In/Sec Full Scale (25.4 mm/s)
	-02			2.00 In/Sec Full Scale (50.8 mm/s)
Metric System	-10			10 mm/s Full Scale
	-20			20 mm/s Full Scale
	-25			25 mm/s Full Scale
	-50			50 mm/s Full Scale
	-100			100 mm/s Full Scale
		-R		RMS Detection
		-P		Peak Detection
			-M12	4 Pin M12 Eurofast Connector

**Example Part Number:** CMCP422VTT-01-R-M12 Loop Powered 4-20 mA Velocity and Temperature Sensor, Top Exit, Full Scale 1.0 In/Sec, RMS Detection, and 4 Pin M12 Connector

## Similar Products



**CMCP422VTT-XX-X-M12**  
Side Exit, M12 Eurofast Connector



**CMCP422VTT-XX-X-IP**  
PUR Integral Cable

**Note:** Due to STI's continuous process improvement, specifications are subject to change without notice.