STI
STI Vibration Monitoring Inc.

Vibration Monitoring and Machine Protection Systems
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Condition Monitoring Custom Products

CMCP422VTT-M12 Series
Dual Output Velocity and Temperature Sensor,
Top Exit M12 Connector

Features:

- **Loop Powered 4-20mA Velocity Output**
- **Voltage Temperature Output (0-1VDC)**
- **Velocity RMS or Peak**
- **Top Exit M12 Connector**
- **Interfaces Directly to PLC/DCS System**
- **10Hz to 1kHz ISO Filtering (600 CPM to 60k CPM)**
- **-13 to 194°F (-25 to 90°C) Temperature Range**
- **Sealed to IP68**
- **Class 1 Division 2 Approved**
- **Class 1 Division 1 with IS Barrier**

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.
Vibration Output Ranges (4-20mA):	-01 Model: 0-1.0 In/Sec RMS or Peak (0-25.4mm/Sec)
	-02 Model: 0-2.0 In/Sec RMS or Peak (0-50.8mm/Sec)
Temperature Output Range (0-1VDC):	0-100 Degrees C (32 to 212 Degrees F)
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
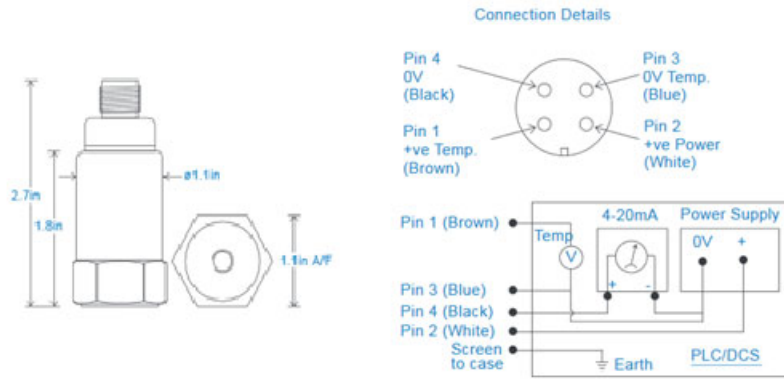|	
Output Current:	4-20mA DC Proportional to RMS or Peak Velocity
Supply Voltage:	15 to 30 VDC
Settling Time:	2 Seconds
Output Impedance:	Loop Resistance 600 Ohms Max @ 24VDC
Case Isolation:	>10^8 Ohms at 500 Volts

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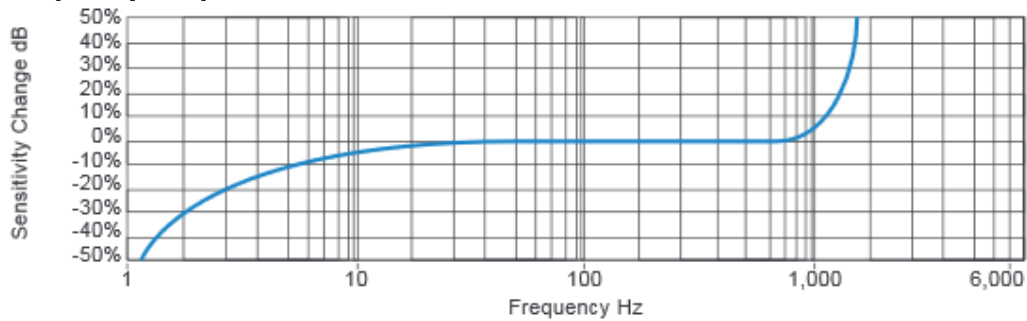|	
Operating Temperature Range:	-13 to 194°F (25 to 90ºC)
Sealing:	IP68
Maximum Shock:	5000 g

Mechanical
Case Material:	Stainless Steel
Sensing Element:	PZT/Compression Type
Mounting Torque:	5.9 ft. lbs (8Nm)
Weight:	5.2 Oz (185g)
Mounting:	1/4"-28 UNF Mounting Screw (Adapters Available)
Mating Connector:	M12

Dimensions

Connection Details

Pin 4
0V
(Black)

Pin 3
0V Temp.
(Blue)

Pin 1
+ve Temp.
(Brown)

Pin 2
+ve Power
(White)

Pin 1 (Brown)

Temp

4-20mA

Power Supply

0V +

Pin 3 (Blue)
Pin 4 (Black)
Pin 2 (White)
Screen
to case

Earth

PLC/DCS

ø1.1in

2.7in

1.8in

1.1in A/F

Typical Frequency Response

Ordering Information:

CMCP422VTT	-XX	-X	-XXX	Description
	-01			1.00 In/Sec Full Scale (25.4mm/Sec)
	-02			2.00 In/Sec Full Scale (50.8mm/Sec)
		-R		RMS Detection
		-P		Peak Detection
			-C	3 Pin MS 5015 Connector
			-M12	**M12 Eurofast Connector**
			-I	Integral Braided Armor Cable (5 meters)

Similar Products:

CMCP422VTTS-XX-X-I
Integral Armored Cable

CMCP422VTTS-XX-X-M12
M12 Eurofast Connector