



CMCP420VT-T Series Dual Output 4-20mA Vibration and Temperature Sensor



Features:

- Two Loop Powered 4-20mA Outputs
- Velocity RMS Output
- Temperature Output
- 2 to 2,000 Hz (120 to 120k CPM) Frequency Response
- 32 to 212°F (0 to 100°C) Measuring Range
- Two Velocity Ranges Available
- Terminal Block Connection
- Class I Division II Groups B-D Approved Standalone
- RoHS Compliant

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

Velocity Ranges: -01 Model: 0-1.0 In/Sec RMS (0-25.4mm/Sec.)
 -02 Model: 0-2.0 In/Sec RMS (0-50.8mm/Sec.)

Temperature Range: 32 to 212°F (0 to 100°C)

Frequency Response: 2 Hz to 2,000 Hz (120 to 120k CPM) ± 5%
 ISO 10816

Isolation: Base Isolated

Measurement Range: 50 g peak

Transverse Sensitivity: Less than 5%

Electrical

Output Current: Two 4-20mA DC Outputs Proportional to RMS Velocity and Temperature

Supply Voltage: 22 to 36 VDC

Settling Time: 3 Seconds

Output Impedance: Loop Resistance 600 Ohms Max @ 24VDC

Case Isolation: >100 Ohms at 500 Volts

Environmental

Operating Temperature Range: -13 to 194°F (-25 to 90°C)

Sealing: IP65 (IP67 with CMCP420BNC or CMCP420XPHD)

Maximum Shock: 5000 g

Mechanical

Case Material: Stainless Steel

Sensing Element: PZT/Compression Type

Mounting Torque: 70 Lb.-In

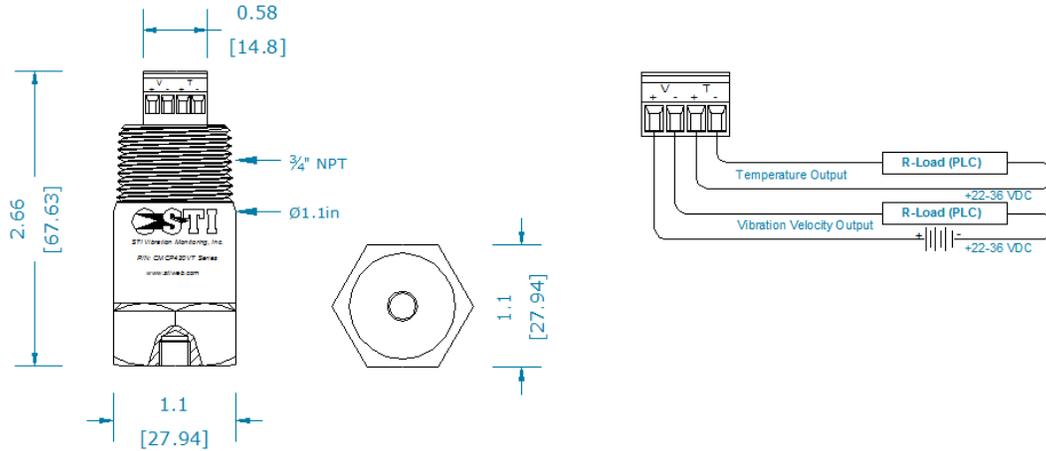
Weight: 8 Oz (226g)

Mounting: 1/4"-28 UNF Mounting Stud (Supplied with Sensor)
 M8x1.25 Mounting Stud (Supplied with Sensor)
 Mounting Adapters Available (CMCP237 and CMCP238 Series)

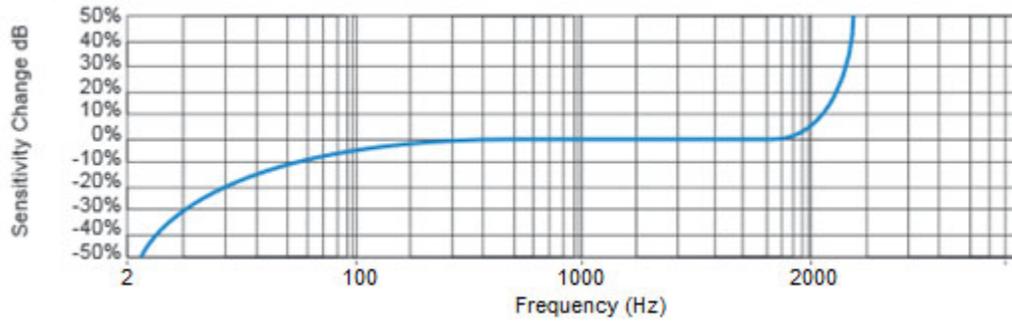
Mating Connector: 18-24AWG (0.81 – 0.32mm²) Instrumentation Cable
 Twisted, Shielded Pair

Approvals:
 Class 1 Division 2 Groups B-D
 UL1604, CSA C22.2 No. 213
 CE Approved
 RoHS Compliant

Dimensions and Connection Details:



Typical Frequency Response:



Ordering Information:

CMCP420VT	-XX	-X	-XXX	Description
	-T1			1.00 In/Sec Full Scale (25.4mm/Sec)
	-T2			2.00 In/Sec Full Scale (50.8mm/Sec)



CMCP420VT Series
 Vibration Velocity 4-20mA Sensor



CMCP422VT-XX-X-C
 4-20mA Velocity Sensor with 2
 Pin MS5015 Connector



CMCP422VT-XX-X-I
 4-20mA Velocity Sensor with 5
 Meter Integral Cable