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