



CMCP422VT-A Series Loop Powered 4-20 mA Velocity Sensor Top Exit Integral Hose Armored Cable



Features

- Loop Powered 4-20 mA Output
- Velocity RMS or Peak
- Stainless Steel Integral Hose Armored Cable
- Interfaces Directly to PLC/DCS System
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- 10 Hz to 1.0 kHz ISO Filtering (600 CPM to 60k CPM)
- -13 to 248°F (-25 to 120°C) Temperature Range
- Sealed to IP65

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 $\pm$ 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 Ohms Max @ 24 VDC
Case Isolation:	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range:	-13 to 248°F (25 to 120°C)
Sealing:	IP65
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 and M8x1.25 Mounting Studs Included
Mating Connector:	Stainless Steel Hose Armor, 2 Wire with Drain/Shield

Electrical Ratings:

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

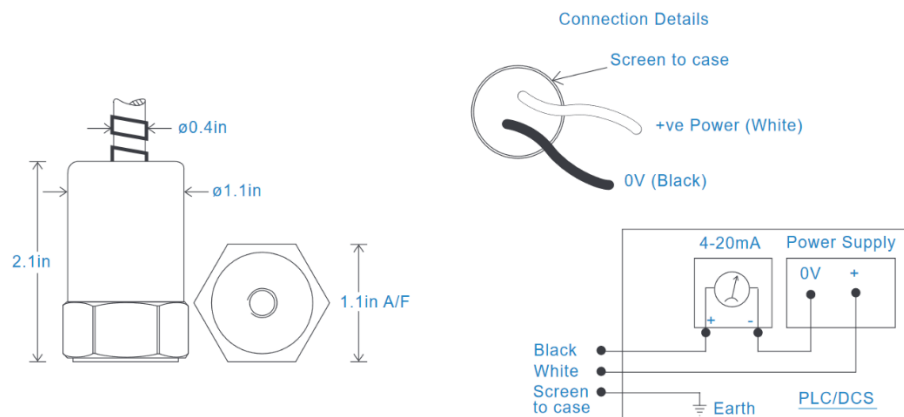
Hazardous Location Ratings:

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

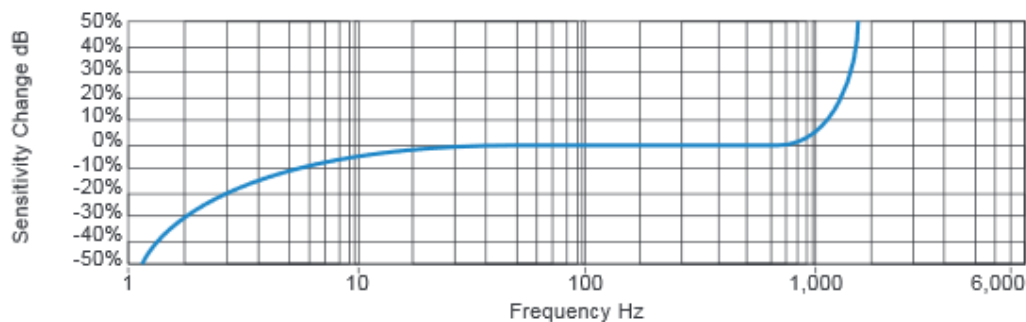
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

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 (25.4 mm/s)
	-02			2.00 In/Sec Full Scale (50.8 mm/s)
		-R		RMS Detection
		-P		Peak Detection
			-C	2 Pin MS 5015 Connector
			-M12	M12 Eurofast Connector
			-A	Integral Hose Armored Cable with FEP Jacketed Cable
				Specify Cable Length In Meter After -A (Ex. -A20 for 20 Meter)

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