



CMCP422AT-I Series

Loop Powered 4-20mA Acceleration Sensor, Top Exit Integral Cable



Features:

- Loop Powered 4-20mA Output
- Acceleration RMS or Peak
- 5m (16') Braided Armor Integral Cable
- Interfaces Directly to PLC/DCS System
- Two Different Ranges Available
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- 10Hz to 5kHz (600 CPM to 300k CPM)
- -13 to 194°F (-25 to 90°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: 10 kHz Min.
 Ranges: See Ordering Information Below
 Frequency Response: 10 Hz to 5 kHz ± 5%
 600 CPM to 300k CPM
 ISO 10816
 Isolation: Base Isolated with Faraday Cage
 Transverse Sensitivity: Less than 5%

Electrical

Output Current: 4-20mA DC Proportional to RMS or Peak Acceleration (g)
 Supply Voltage: 15 to 30 VDC
 Settling Time: 2 Seconds
 Output Impedance: Loop Resistance 600 Ohms Max @ 24VDC
 Case Isolation: >10⁸ Ohms at 500 Volts

Environmental

Operating Temperature Range: -13 to 194°F (25 to 90°C)
 Sealing: IP65
 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 (150g)
 Mounting: 1/4"-28 UNF Quick Fit (Supplied with Sensor)
 Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series
 Mating Connector: 5 Meter (16') Braided Armor Cable, 2 Wire with Drain/Shield

Electrical Ratings:

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

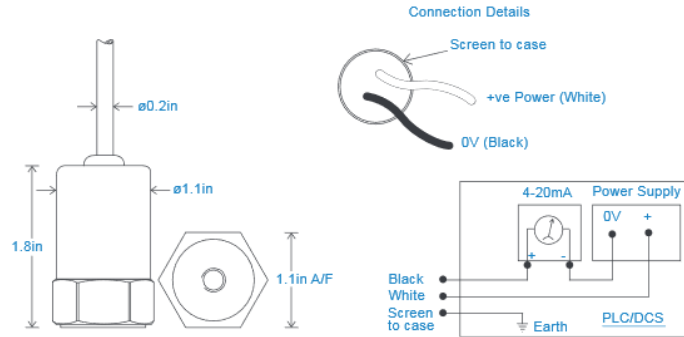
Hazardous Location Ratings:

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

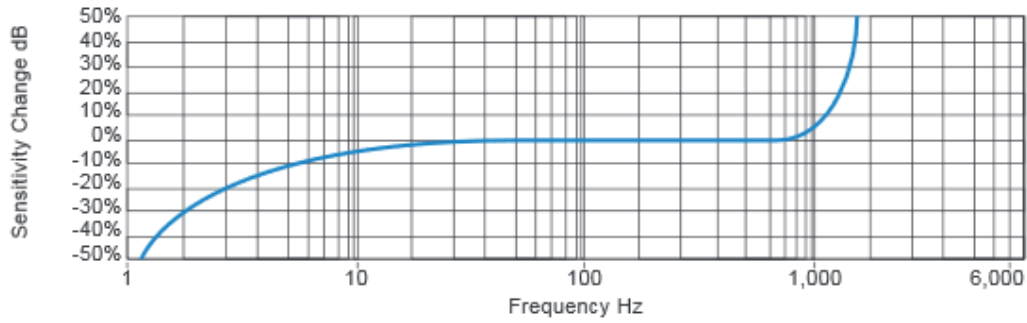
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

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

Dimensions



Typical Frequency Response



Ordering Information:

CMCP422AT	-XX	-X	-XXX	Description
	-01			1 g Full Scale
	-02			2 g's Full Scale
	-05			5 g's Full Scale
	-10			10 g's Full Scale
		-R		RMS Detection
		-P		Peak Detection
			-C	2 Pin MS 5015 Connector
			-M12	M12 Eurofast Connector
			-I	Integral Braided Armor Cable (5 meters)

Similar Products:



CMCP422AT-XX-X-M12
M12 Eurofast Connector



CMCP422AT-XX-X-C
2 Pin MS 5015 Connector