

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 ISO Filtering (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:	-05 Model: 0-5 g's RMS or Peak -10 Model: 0-10 g's RMS or Peak
Frequency Response:	10 Hz to 5 kHz \pm 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:	>10 ⁸ 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:

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

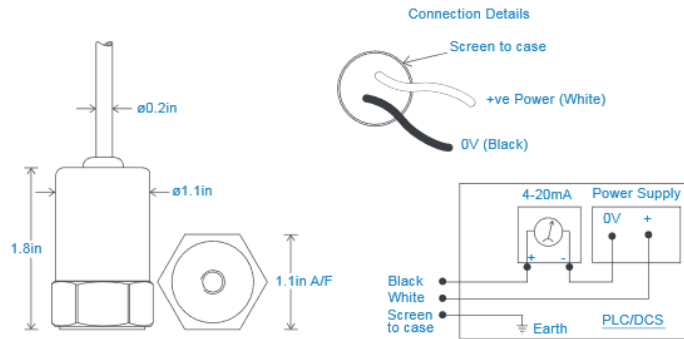
Hazardous Location Ratings:

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

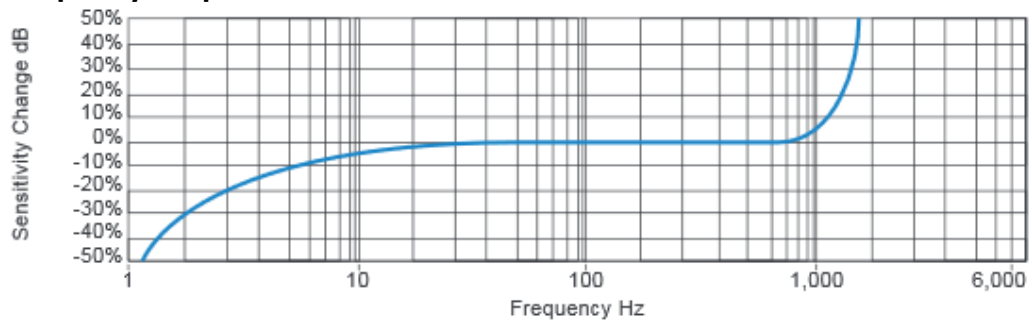
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

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
	-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