



CMCP422AT-I Series

Loop Powered 4-20 mA Acceleration Sensor,
Top Exit, IP65, Braided Armor Integral Cable



UK
CA



Features

- Loop Powered 4-20 mA Output
- Acceleration RMS or Peak Detection
- Top Exit with Overbraided Armored Integral Cable
- Interfaces Directly with Control Systems (PLC/DCS)
- Four Different Ranges Available
- 10 Hz to 5.0 kHz +/-5% Frequency Response (600 CPM to 300 kCPM)
- Armored, -Sealed to IP65
- -25 to +120°C (-13 to 248°F) Temperature Rating
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator

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:	1, 2, 5 or 10 g; to specify see Ordering Information below
Frequency Response:	10 Hz to 5.0 kHz ± 5% 600 CPM to 300 kCPM
Isolation:	Base Isolated with Faraday Cage
Transverse Sensitivity:	Less than 5%

Electrical

Output Current:	4-20 mA DC Proportional to RMS or Peak Acceleration (g)
Supply Voltage:	15 to 30 VDC
Settling Time:	2 Second
Output Impedance:	Loop Resistance 600 Ohm Max @ 24 VDC
Case Isolation:	>10 ⁸ Ohm at 500 Volt
Ratings:	U _i =28V; I _i = 115mA; P _i = 0.65W

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 Mounting Stud and 1/4-28 to M8x1.25 Adapter Stud (Supplied with Sensor)
Mating Connector:	Braided Jacketed Cable

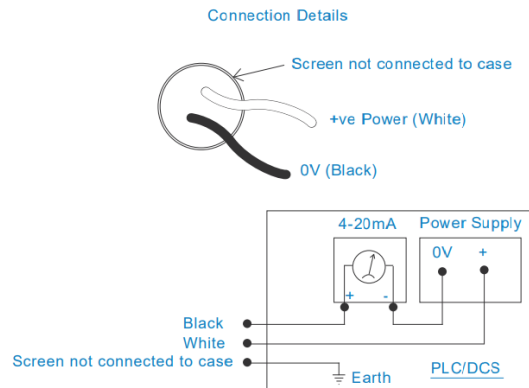
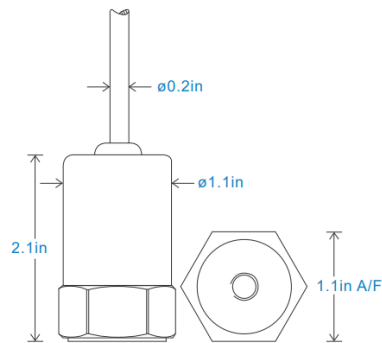
Hazardous Location Ratings:

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

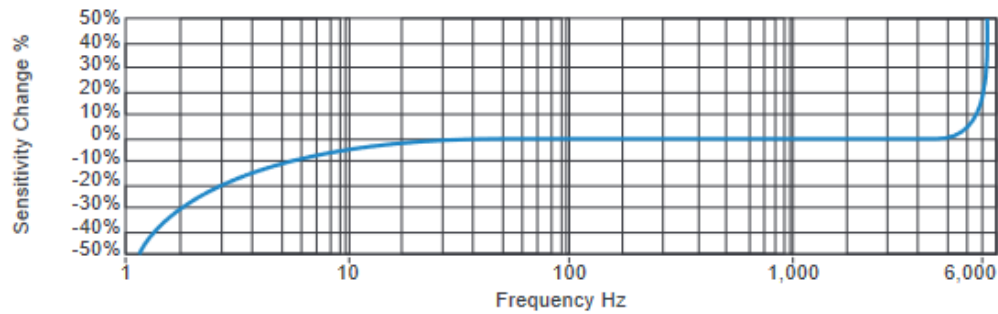
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

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

Dimensions



Typical Frequency Response



Ordering Information

CMCP422AT	-XX	-X	-XXX
	-01		
	-02		
	-05		
	-10		
		-R	
		-P	
			-M12
			-C
			-IP
			-I

Description

1 g Full Scale
 2 g's Full Scale
 5 g's Full Scale
 10 g's Full Scale
 RMS Detection
 Peak Detection
 M12 Eurofast Connector
 2 Pin MS 5015 Connector
 PUR Integral Submersible Cable
Integral Armored Braided Cable, 5 m (16')

Specify desired Cable Length in Meter after '-I' (for example -I20 for 20 meter)

Similar Products



CMCP422AT-XX-X-M12
M12 Eurofast Connector



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



CMCP422AT-XX-X-IP
PUR Integral Cable

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