



CMCP422AT-IP Series

Loop Powered 4-20 mA Acceleration Sensor,
Top Exit, IP68, Submersible, Integral Cable



UK
CA



Features

- Loop Powered 4-20 mA Output
- Acceleration RMS or Peak Detection
- Top Exit with PUR 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)
- Submersible, -Sealed to IP68
- -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: 4-20mA 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: >10⁸ 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: IP68
 Maximum Shock: 5000 g
 Submersible: Up to 100 meter (10 bar)

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: PUR (Polyurethane) Jacketed Cable

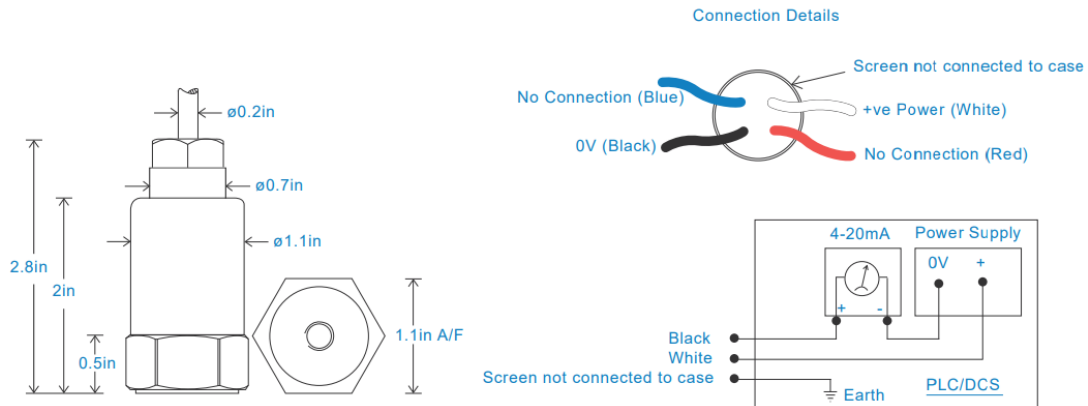
Hazardous Location Ratings:

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

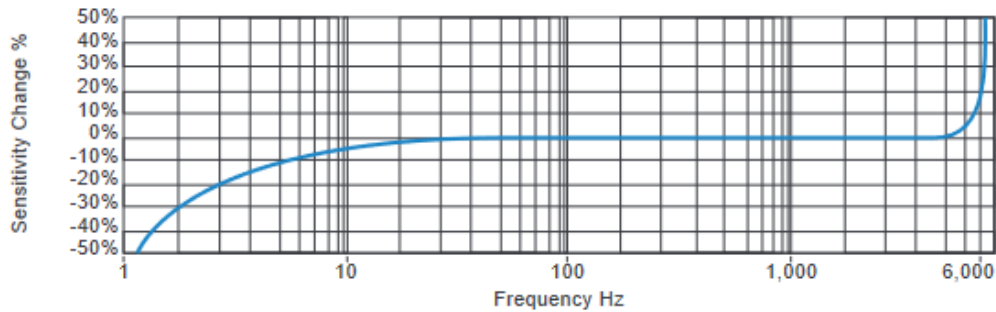
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C

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

Dimensions



Typical Frequency Response



Ordering Information

CMCP422AT	-XX	-X	-XXX	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
			-M12	M12 Eurofast Connector
			-C	2 Pin MS 5015 Connector
			-I	Armored Braided Cable
			-IP	Integral PUR Submersible Cable, 5 m (16')

Specify desired Cable Length in Meter after 'IP' (for example IP20 for 20 meter)

Similar Products



CMCP422AT-XX-X-M12
M12 Eurofast Connector



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



CMCP422AT-XX-X-I
Braided Integral Cable

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