



**CMCP422AT-IP Series**  
**Loop Powered 4-20 mA Acceleration Sensor**  
**Top Exit Submersible IP68 Integral Cable**



**Features**

- Loop Powered 4-20 mA Output
- Acceleration RMS or Peak
- PUR Jacketed Submersible Integral 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 5.0 kHz Filtering (600 CPM to 300k CPM)
- -13 to +248 °F (-25 to +120 °C) Temperature Range
- Sealed to IP68

**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 5.0 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 Ohms Max @ 24VDC  
 Case Isolation: >10<sup>8</sup> Ohms at 500 Volts

**Environmental**

Operating Temperature Range: -13 to +248 °F (-25 to +120 °C)  
 Sealing: IP68  
 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)  
 Mating Connector: PUR Jacketed Cable

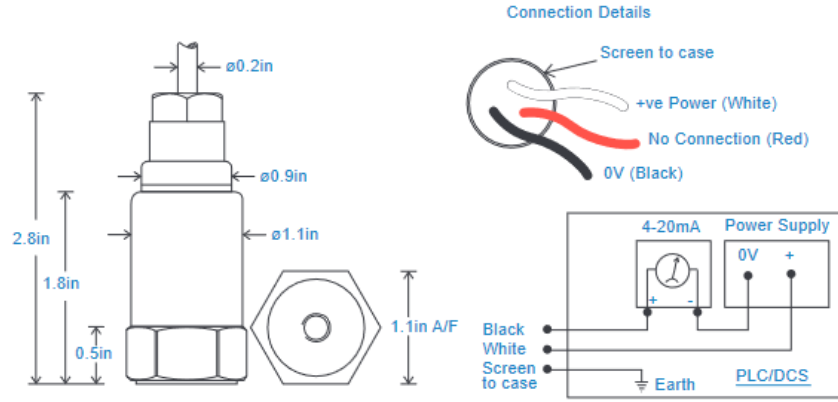
**Electrical Ratings**

U<sub>i</sub>=28V; I<sub>i</sub> = 115mA; P<sub>i</sub> = 0.65W

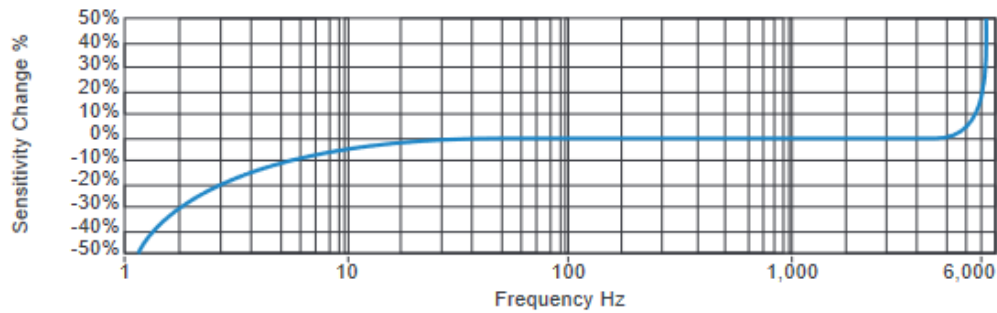
### Hazardous Location Ratings:

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
			<b>-IP</b>	<b>Integral PUR Submersible Cable, 5 m (16')</b>

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