



## CMCP422ATS-IP Series

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



### Features

- Loop Powered 4-20 mA Output
- Acceleration RMS or Peak Detection
- Side 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
- Lifetime Warranty



### 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 300k CPM
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 <sup>8</sup> Ohm at 500 Volts

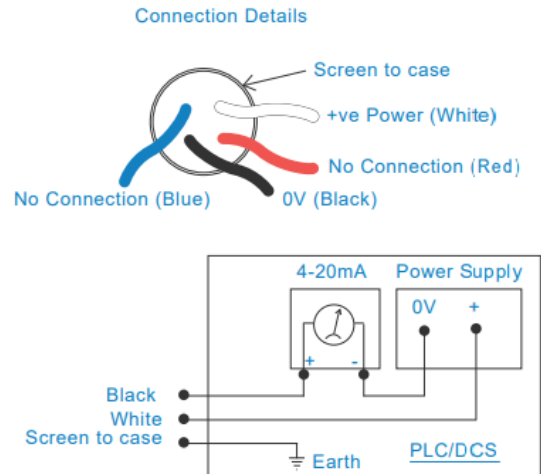
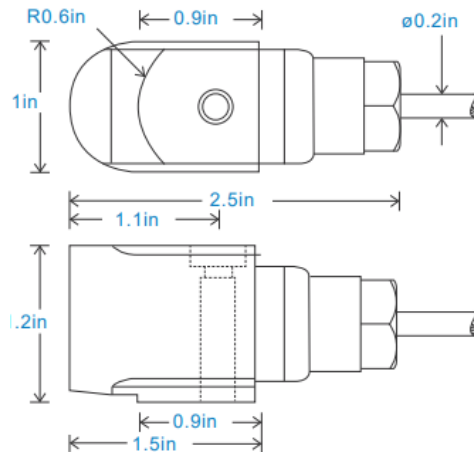
### Environmental

Operating Temperature Range:	-13 to +248°F (-25 to +120°C)
Sealing:	IP68
Submersible:	Up to 100 meter (10 bar)
Maximum Shock:	5000 g

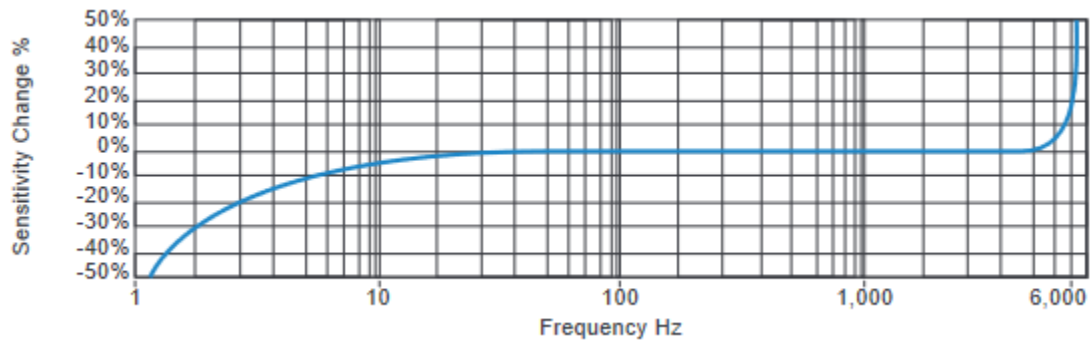
### Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Shear Type
Mounting Torque:	5.9 ft. lbs (8Nm)
Weight:	6.5 Oz (185 g) Sensor only
Mounting:	
CMCP422ATS-IP:	1/4"-28 UNF Captive Bolt Supplied with Sensor
CMCP422ATS-IP-M8:	M8x1.25 Captive Bolt Supplied with Sensor
Mating Connector:	PUR (Polyurethane) Jacketed Cable with Flying Leads

## Dimensions



## Typical Frequency Response



## Ordering Information

CMCP422ATS	-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	Armored Braided Integral Cable
			<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



**CMCP422ATS-XX-X-M12**  
M12 Eurofast Connector



**CMCP422ATS-XX-X-C**  
2 Pin MS 5015 Connector



**CMCP422ATS-XX-X-I**  
Braided Integral Cable

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