STI
STI Vibration Monitoring Inc.

Vibration Monitoring and Machine Protection Systems
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Condition Monitoring Custom Products

CMCP422ATS-C Series
Loop Powered 4-20mA Acceleration Sensor, Side Exit 2 Pin MS 5015

Features:

- Loop Powered 4-20mA Output
- Acceleration RMS or Peak
- Side Exit 2 Pin MS 5015 Connector
- Low Profile
- Interfaces Directly to PLC/DCS System
- Two Different Ranges Available
- 10Hz to 1kHz ISO Filtering (600 CPM to 300k CPM)
- -13 to 194°F (-25 to 90°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:	-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 ± 5%
	600 CPM to 300k CPM
	ISO 10816
Isolation:	Base Isolated with Faraday Cage
Transverse Sensitivity:	Less than 5%

Electrical

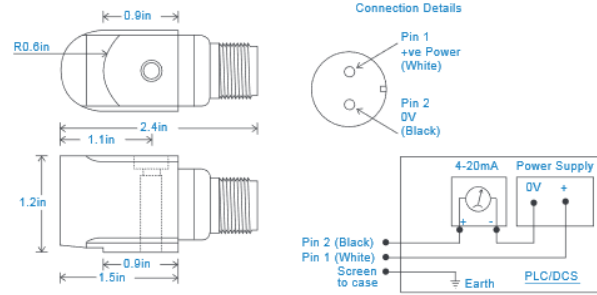|	
Output Current:	4-20mA DC Proportional to RMS or Peak Acceleration (g)
Supply Voltage:	15 to 30 VDC
Settling Time:	2 Seconds
Output Impedance:	Loop Resistance 600 Ohms Max @ 24VDC
Case Isolation:	>10^8 Ohms at 500 Volts

Environmental

Operating Temperature Range:	-13 to 194°F (25 to 90°C)
Sealing:	IP68
Maximum Shock:	5000 g

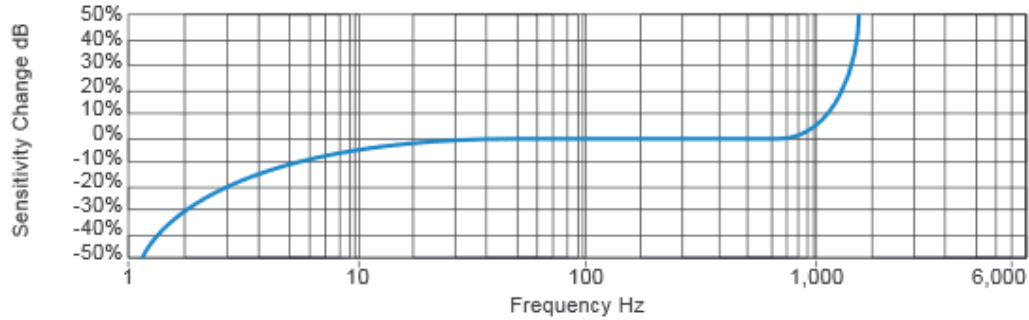### Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Compression Type
Mounting Torque:	5.9 ft. lbs (8Nm)
Weight:	6.5 Oz (185g)
Mounting:	1/4"-28 Captive Bolt (Supplied with Sensor)
Mating Connector:	2 Pin MIL 5015 MS Connector

Dimensions

Connection Details

Pin 1 +ve Power (White)
Pin 2 0V (Black)

4-20mA Power Supply
0V +

Pin 2 (Black)
Pin 1 (White)
Screen to case
Earth   PLC/DCS

Typical Frequency Response

Ordering Information:

CMCP422ATS	-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:

CMCP422ATS-XX-X-I
Integral Armored Cable

CMCP422ATS-XX-X-M12
M12 Eurofast Connector