

CMCP1100CT Series Low-Cost Accelerometer with Temperature Output



Features

- Compact Accelerometer, Top Exit
- 100 mV/g $\pm 10\%$
- 10 mV/ $^{\circ}\text{C}$ Temperature Output
- 0.32 Hz to 10 kHz Frequency Response
- 3 Pin M8 Connector
- Waterproof, Epoxy Encapsulated
- UV and Oil Resistant
- Stainless Steel Case

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:	>25 kHz (nominal)
Sensitivity:	100 mV/g $\pm 10\%$ Nominal 80 Hz at 22 $^{\circ}\text{C}$
Temperature Output:	10 mV/ $^{\circ}\text{C}$
Frequency Response:	1.5 Hz to 8 kHz $\pm 10\%$ (90 cpm to 480 kcpm) 0.32 Hz to 10 kHz $\pm 3\text{dB}$ (19.2 cpm to 600 kcpm)
Isolation:	Case Isolated
Measurement Range:	± 50 g
Transverse Sensitivity:	Less than 5%

Electrical

Supply Voltage:	18 to 28 VDC
Current Range:	2 to 20 mA
Bias Voltage:	8-12 Vdc
Electrical Noise:	0.1 mg max.
Settling Time:	2.5 Second
Output Impedance:	<100 Ohm max.
Case Isolation:	>10 8 Ohm at 500 Volt

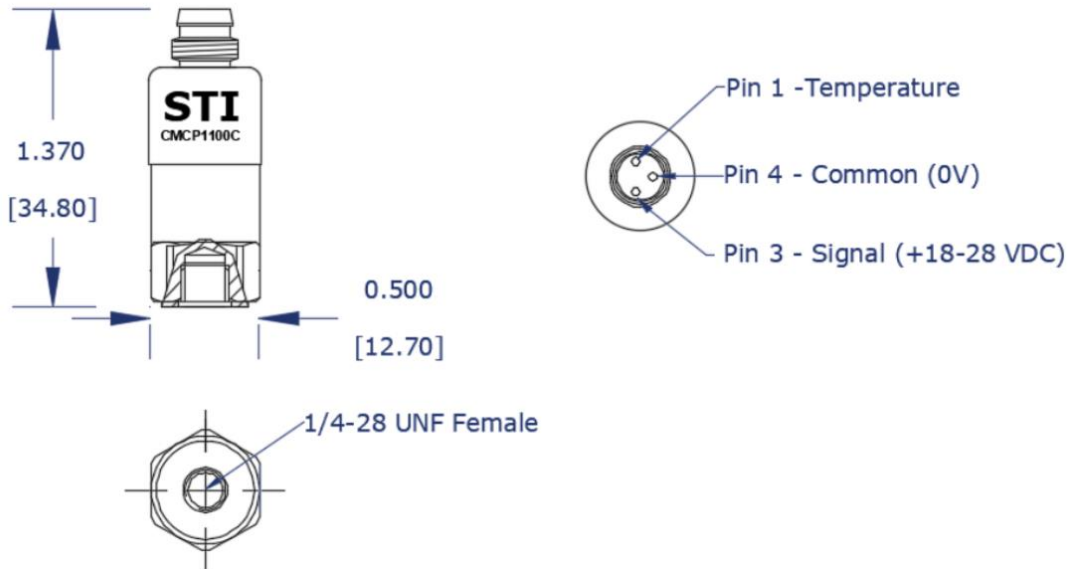
Environmental

Operating Temperature Range:	-65 to 185 $^{\circ}\text{F}$ (-54 to 85 $^{\circ}\text{C}$)
Sealing:	Epoxy Encapsulated
Maximum Shock:	7,000 g
Approvals:	CE Approved

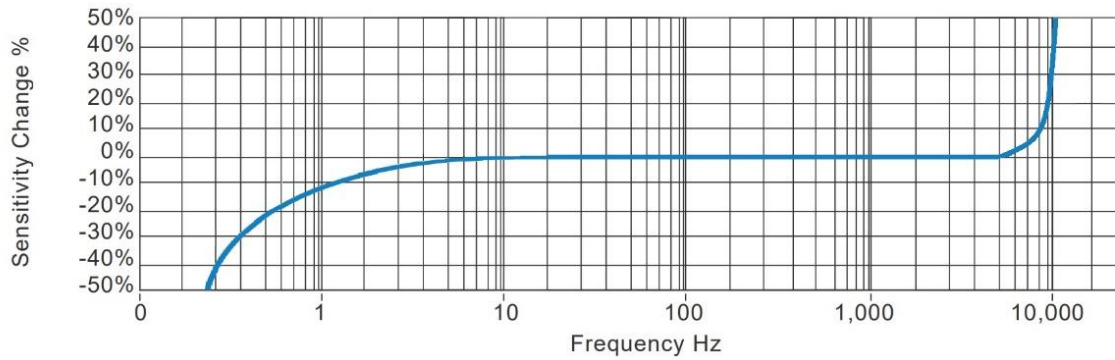
Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9 ft-lbs (8 Nm)
Weight:	2.5 Oz (70.7 gram)
Connector:	3-Pin M8

Dimensions and Wiring



Typical Frequency Response



Ordering Information

CMCP1100CT Low-Cost Compact Accelerometer with Temperature Output, 3-Pin M8 Connector

Similar Products



Integral Cable
CMCP1100T



M12 Connector
CMCP785T-M12



MS Connector
CMCP785T