



## CMCP1100CT Series Low Cost Compact Accelerometer with Temperature Output



### Features:

- Low Cost Compact Accelerometer
- 100mV/g ±5%
- 0.32Hz to 10kHz Frequency Response
- 10mV/°C Temperature Output
- 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: 100mV/g ±5% Nominal 80Hz at 22°C  
 Frequency Response: 1.5 Hz to 8 kHz ±10% (90cpm to 480kcpm)  
 0.32 Hz to 10 kHz ±3dB (19.2cpm to 600kcpm)  
 Temperature Output: 10mV/°C  
 Isolation: Case Isoalted  
 Measurement Range: ±50 g  
 Transverse Sensitivity: Less than 5%

### Electrical

Excitation Voltage: 18 to 28 VDC  
 Electrical Noise: 0.1mg max  
 Current Range: 2 to 20mA  
 Bias Voltage: 8-12 Vdc  
 Settling Time: 2.0 Second  
 Output Impedance: <100 Ohms max.  
 Case Isolation: >10<sup>8</sup> Ohms at 500 Volts

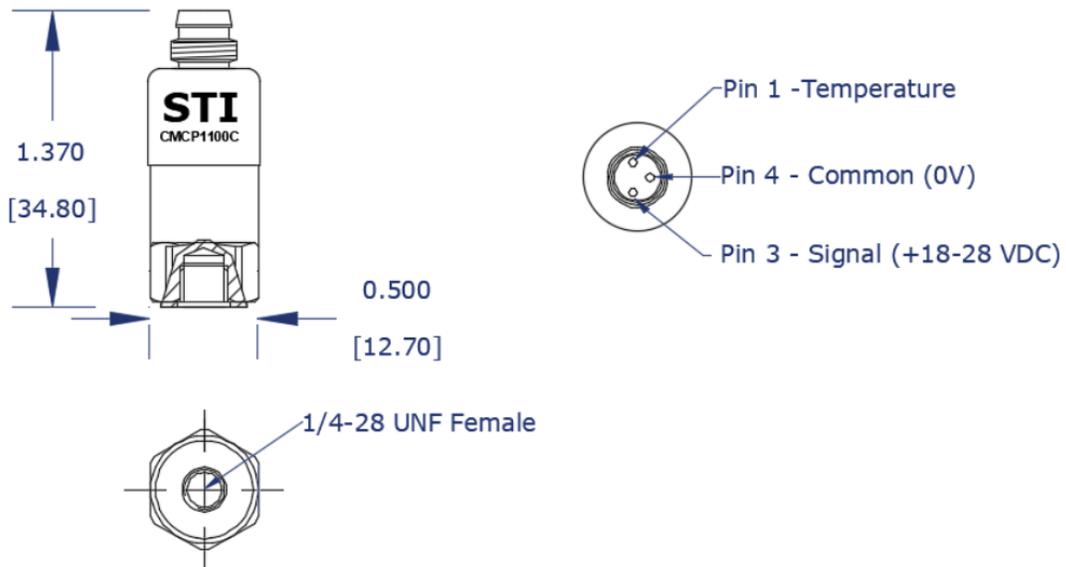
### Environmental

Operating Temperature Range: -65 to 185°F (-54 to 85°C)  
 Sealing: Epoxy Encapsulated  
 Maximum Shock: 7,000 g  
 Approvals: CE Approved

### Mechanical

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

## Dimensions and Wiring



## Ordering Information:

CMCP1100CT Low Cost Compact Accelerometer with Temperature and M8 Connector

## Recommended Cable Assemblies:

General Purpose TPE Jacketed Cable (Rated to 120°C)

CMCP603S Series 3 Socket M8 Connector Cable Assembly, Various Cable Lengths

## Similar Products



**M12 Connector**  
CMCP786A-M12



**Submersible**  
CMCP786A-IP



**Integral Armored Cable**  
CMCP786A-I