STI Vibration Monitoring Inc.

*Vibration Monitoring and Machine Protection Systems*

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*Condition Monitoring Custom Products*

# CMCP1300ST-T

## Low Cost Triaxial Accelerometer with Temperature Output


**Features:**

- Side Exit Triaxial Accelerometer with Temperature Output
- 100mV/g ±5% Per Axis
- 10mV/°C Temperature Output
- 2 Second Settling Time
- 0.32Hz to 10kHz (19.2 to 900k CPM)
- 316 Stainless Steel Case
- 5 Pin M12 Connector
- -65 to +185°F (-54 to +85°C)
- ±80g Range
- ¼"-28 UNF or M8x1.25 Mounting Bolt

### 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

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|---|---|
| Mounted Base Resonance: | 20 kHz (1,800k CPM) |
| Sensitivity: | 100mV/g ±5% Nominal 80Hz at 22ºC |
| Temperature Output: | 10mV/°C (0-100°) |
| Frequency Response: | 2 Hz to 10 kHz ±5% (120 cpm to 600k cpm)<br>1.5 Hz to 12 kHz ±10% (90 cpm to 720k cpm)<br>0.32 Hz to 15 kHz ±3dB (19.2 cpm to 900k cpm) |
| Isolation: | Base Isolated |
| Measurement Range: | ±80 g |
| Transverse Sensitivity: | Less than 5% |

### Electrical

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|---|---|
| Electrical Noise: | 0.1mg max |
| Current Range: | 0.5mA to 8mA |
| Bias Voltage: | 10-12 Vdc |
| Settling Time: | 1 Second |
| Output Impedance: | 200 Ohms max. |
| Case Isolation: | $>10^8$ Ohms at 500 Volts |

### Environmental

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|---|---|
| Operating Temperature Range: | -65 to 185°F (-54 to 85ºC) |
| Sealing: | IP67 |
| Maximum Shock: | 5000 g |
| Approvals: | CE Approved |

### Mechanical

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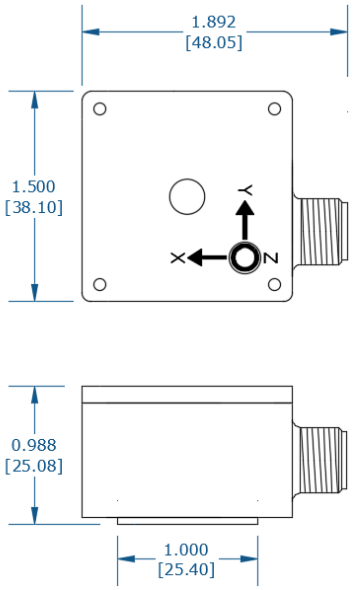
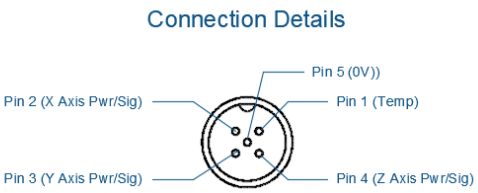
|---|---|
| Case Material: | 316 Stainless Steel |
| Sensing Element: | PZT/Shear |
| Mounting Torque: | 5.9ft. lbs (8Nm) |
| Weight: | 6.7 Oz (189 grams) |
| Mounting: | 1/4"-28 UNF or M8x1.25 Bolt |
| Connector: | 5 Pin M12 |
| Mating Cable: | CMCP605M Series Cables |

## Dimensions




## Ordering Information:

| | |
|---|---|
| CMCP1300ST-T | Low Cost Triaxial Accelerometer with Temperature Output, ¼-28 UNF Mounting Bolt |
| CMCP1300ST-T-M8 | Low Cost Triaxial Accelerometer with Temperature Output, M8x1.25 Mounting Bolt |