

# Vibration Monitoring and Machine Protection Systems

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# CMCP786T **Dual Output Top Entry Accelerometer with Temperature** 3 Pin MS Connector







# Features:

- Dual Output Accelerometer with Temperature
- $100 \text{mV/g} \pm 10\%$  and 10 mV/°C
- 140° Max Temperature Range
- ±80g Dynamic Range
- 3 Pin MS 5015 Connector
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- 1/4"-28 UNF and M8x1.25 Mounting Studs Provided
- 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: 27 kHz (nominal)

100mV/g ±10% Nominal 80Hz at 22°C Sensitivity (Acceleration):

Sensitivity (Temperature): 10mV/°C (0-100°C Range)

Frequency Response: 1.0 Hz to 10 kHz  $\pm 10\%$  (60cpm to 600kcpm) 0.8 Hz to 12 kHz ±3dB (48cpm to 720kcpm)

Isolation: Base Isolated

±80 g Measurement Range:

Less than 5% Transverse Sensitivity:

# **Electrical**

Electrical Noise: 0.1mg max Current Range: 0.5mA to 8mA Bias Voltage: 10-12 Vdc Settling Time: 1.5 Seconds Output Impedance: 200 Ohms max.

Case Isolation: >108 Ohms at 500 Volts

#### **Environmental**

-67 to 284°F (-55 to 140°C) Operating Temperature Range:

IP68 Sealing: 5000 q Maximum Shock: Approvals: CE Approved

CSA/UL Class 1 Division 2, Groups B, C and D

### Mechanical

Case Material: Stainless Steel Sensing Element: PZT/Compression Mounting Torque: 5.9ft. lbs (8Nm) 4.9 Oz (139 grams) Weight:

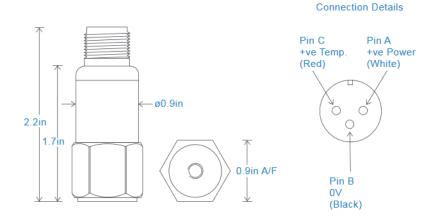
Mating Connector: 3 Pin MS 5015 Connector

1/4-28 UNF and M8x1.25 Mounting Stud Provided Mounting Thread:

## **Hazardous Location Ratings**

Class I, II, III, Division 1 and 2, Groups A-G, T4, -55°C to + 110°C IP65 Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C Zone 20, AEx, ia, IIIC, T130°C, IP65, Da, -55°C to + 110°C Class I, II, III, Division 1, 2, Groups A-G, T6, -55°C to + 110°C Zone 20, AEx, ia, IIIX, T80°C, IP65, DA, -55°C to + 110°C

### **Dimensions**



### **Ordering Information:**

CMCP786T Dual Output Accelerometer with Temperature, Top Entry 3 Pin MS Connector

## **Alternative Sensitivity Ordering Information:**

CMCP786T-XXX Specify Sensitivity in Place of –XXX

50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

### **Recommended Cable Assemblies:**

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

CMCP603L Series 3 Socket MS Connector, Locking Collar, IP67 CMCP603LST Series 3 Socket MS Connector, Push On Seal Tight, IP68

High Temperature FEP Jacketed Cable (Rated to 200°C)

CMCP603H Series 3 Socket MS Connector, Locking Collar, IP67
CMCP603HST Series 3 Socket MS Connector, Push On Seal Tight, IP68

### **Similar Products**



M12 Connector CMCP786T-M12



**Submersible** CMCP786T-IP



Integral Armored Cable CMCP786T-I