



## CMCP786T-I Dual Output Accelerometer with Temperature Top Exit 5m Braided Armor Integral Cable



### Features:

- Dual Output Accelerometer with Temperature
- 100mV/g  $\pm 10\%$  and 10mV/ $^{\circ}\text{C}$
- 5 Meter (16') Braided Armor Integral Cable
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- -67 to +284 $^{\circ}\text{F}$  (-55 to +140 $^{\circ}\text{C}$ ) Extended Temperature Range
- $\pm 80\text{g}$  Range
- 1/4"-28 UNF Quick Fit Adapter
- Sealed to IP65

### 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)
Sensitivity (Acceleration):	100mV/g $\pm 10\%$ Nominal 80Hz at 22 $^{\circ}\text{C}$
Sensitivity (Temperature):	10mV/ $^{\circ}\text{C}$ (100 $^{\circ}\text{C}$ Range)
Frequency Response:	2 Hz to 10 kHz $\pm 5\%$ (120 cpm to 600k cpm) 1.5 Hz to 12 kHz $\pm 10\%$ (90 cpm to 720k cpm) 0.8 Hz to 15 kHz $\pm 3\text{dB}$ (48 cpm to 900k cpm)
Isolation:	Base Isolated
Measurement Range:	$\pm 80\text{ g}$
Transverse Sensitivity:	Less than 5%

### Electrical

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

Operating Temperature Range:	-67 to 284 $^{\circ}\text{F}$ (-55 to 140 $^{\circ}\text{C}$ )
Sealing:	IP65
Maximum Shock:	5000 g
Approvals:	CE Approved CSA/UL Class 1 Division 2, Groups B, C and D

### Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9ft. lbs (8Nm)
Weight:	4.9 Oz (139 grams)
Mounting:	1/4"-28 UNF Quick Fit (Supplied with Sensor) Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series
Mating Connector:	5 Meter (16') Braided Armor Cable, 3 Wire with Drain/Shield

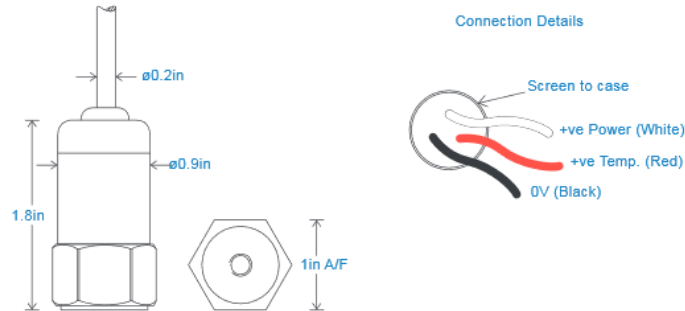
### Hazardous Location Ratings

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

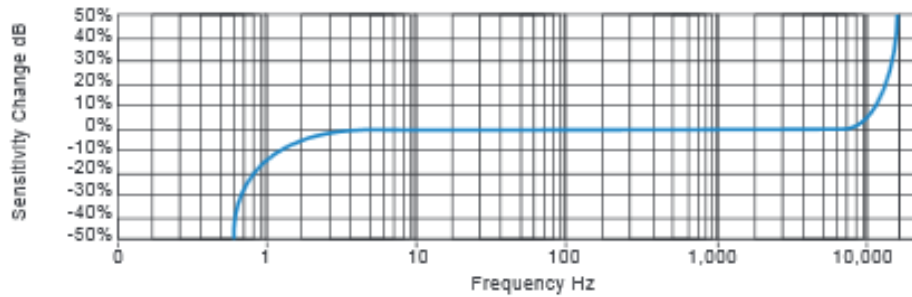
### Optional Modifications

Non-Stocked Sensitivities: 50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)  
Sensitivity specified after base part number (ex. CMCP786T-I-500)

### Dimensions



### Typical Frequency Response (at 100mV/g)



### Ordering Information:

CMCP786T-I Dual Output Accelerometer with Temp, Top Exit, 100mV/g with 5m Integral Cable

### Alternative Sensitivity Ordering Information:

CMCP786T-I-XXX Specify Sensitivity in Place of -XXX  
50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

### Similar Products:



**CMCP786T-M12**  
4 Pin M12 Eurofast Connector



**CMCP786T**  
3 Pin MS 5015 Connector