



CMCP786T-IP Dual Output Top Entry Accelerometer with Temperature Submersible PUR Cable



Features:

- Dual Output Accelerometer with Temperature
- Submersible to 100m
- 100mV/g $\pm 10\%$ and 10mV/ $^{\circ}\text{C}$
- 140 $^{\circ}$ Max Temperature Range
- $\pm 80\text{g}$ Dynamic Range
- 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)
Sensitivity (Acceleration):	100mV/g $\pm 10\%$ Nominal 80Hz at 22 $^{\circ}\text{C}$
Sensitivity (Temperature):	10mV/ $^{\circ}\text{C}$ (0-100 $^{\circ}\text{C}$ Range)
Frequency Response:	1.0 Hz to 10 kHz $\pm 10\%$ (60cpm to 600kcpm) 0.8 Hz to 12 kHz $\pm 3\text{dB}$ (48cpm to 720kcpm)
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:	1.5 Seconds
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:	IP68
Submersible Depth:	100m (10 bar)
Maximum Shock:	5000 g
Approvals:	CE Approved CSA/UL Class 1 Division 2, Groups B, C and D

Mechanical

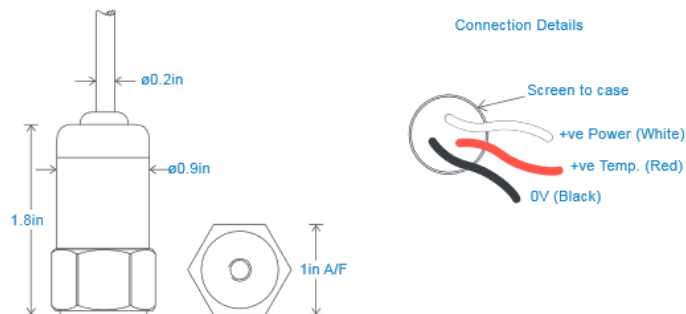
Case Material:	Stainless Steel
Sensing Element:	PZT/Compression
Mounting Torque:	5.9ft. lbs (8Nm)
Weight:	4.9 Oz (139 grams)
Mating Connector:	Flying Leads (Integral PUR Jacketed Cable)
Mounting Thread:	1/4-28 UNF and M8x1.25 Mounting Stud Provided

Condition Monitoring Custom Products

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-IPXX Dual Output Accelerometer with Temperature, Submersible Cable
(Specify Cable Length in Meters in Place of XX)

Alternative Sensitivity Ordering Information:

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

Similar Products



MS Connector
CMCP786T



M12 Connector
CMCP786T-M12



Integral Armored Cable
CMCP786T-IP