

CMCP788T-IP

Premium Dual Output Top Entry Accelerometer with Temperature Submersible PUR Cable



Features:

- Dual Output Accelerometer with Temperature
- Submersible to 100m
- 100mV/g $\pm 5\%$ and 10mV/ $^{\circ}\text{C}$ (0-150 $^{\circ}\text{C}$)
- 150 $^{\circ}$ 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

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|-----------------------------|---|
| Mounted Base Resonance: | 27 kHz (nominal) |
| Sensitivity (Acceleration): | 100mV/g $\pm 5\%$ Nominal 80Hz at 22 $^{\circ}\text{C}$ |
| Sensitivity (Temperature): | 10mV/ $^{\circ}\text{C}$ (0-150 $^{\circ}\text{C}$ Range) |
| Frequency Response: | 1.5 Hz to 12 kHz $\pm 5\%$ (90cpm to 720kcpm) 1.0 Hz to 13 kHz $\pm 10\%$ (60cpm to 780kcpm) 0.8 Hz to 15 kHz $\pm 3\text{dB}$ (48cpm to 900kcpm) |
| Isolation: | Base Isolated |
| Measurement Range: | $\pm 80\text{ g}$ |
| 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 Seconds |
| Output Impedance: | 200 Ohms max. |
| Case Isolation: | $>10^8$ Ohms at 500 Volts |

Environmental

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|------------------------------|--|
| Operating Temperature Range: | -67 to 302 $^{\circ}\text{F}$ (-55 to 150 $^{\circ}\text{C}$) |
| 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/Shear |
| 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 |

Hazardous Location Ratings

Class I, II, III, Division 1 and 2, Groups A-G, T4, -55°C to + 110°C IP65

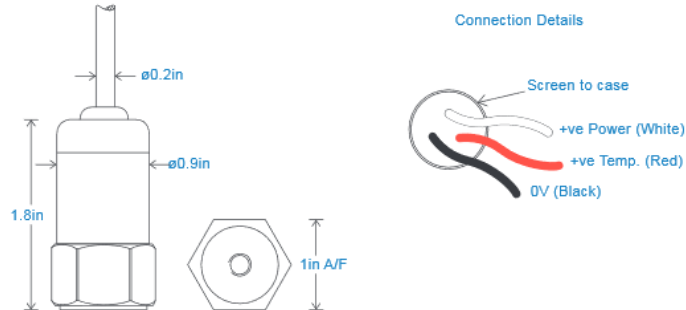
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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:

CMCP788T-IPXX Dual Output Accelerometer with Temperature, Submersible Cable
(Specify Cable Length in Meters in Place of XX)

Alternative Sensitivity Ordering Information:

CMCP788T-IP-XXX Specify Sensitivity in Place of -XXX
50mV/g (-050), 250mV/g (-250) and 500mV/g (-500)

Similar Products



MS Connector
CMCP788T



M12 Connector
CMCP788T-M12



Integral Armored Cable
CMCP788T-I