



CMCP788T-IP Premium Dual Output Top Entry Accelerometer with Temperature and Submersible PUR Integral Cable



Features

- Dual Output Precision Accelerometer with Temperature
- 100 mV/g $\pm 5\%$ and 10 mV/ $^{\circ}\text{C}$
- 150 $^{\circ}\text{C}$ Max Temperature Range
- ± 80 g Dynamic Range
- Integral Braided Armor Cable
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- 1/4"-28 UNF and M8x1.25 Mounting Studs Included
- 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: 30 kHz (nominal)
 Sensitivity (Acceleration): 100 mV/g $\pm 10\%$ Nominal 80 Hz at 22 $^{\circ}\text{C}$
 Sensitivity (Temperature): 10 mV/ $^{\circ}\text{C}$ (0-100 $^{\circ}\text{C}$ Range)
 Frequency Response: 1.5 Hz to 10 kHz $\pm 5\%$ (90 cpm to 600 kcpm)
 0.5 Hz to 12 kHz $\pm 10\%$ (30 cpm to 720 kcpm)
 0.2 Hz to 15 kHz $\pm 3\text{dB}$ (12 cpm to 900 kcpm)

Isolation: Base Isolated
 Measurement Range: ± 80 g
 Transverse Sensitivity: Less than 5%

Electrical

Supply Voltage: 18-30 VDC
 Current Range: 0.5 to 8 mA
 Bias Voltage: 10-12 VDC
 Electrical Noise: 0.1 mg Max.
 Settling Time: 1 Second
 Output Impedance: 200 Ohm Max.
 Case Isolation: $>10^8$ Ohm at 500 Volt

Environmental

Operating Temperature Range: -67 to 302 $^{\circ}\text{F}$ (-55 to 150 $^{\circ}\text{C}$)
 Sealing: IP68
 Submersible: Up to 100 meter (10 bar)
 Maximum Shock: 5000 g
 Approvals: CE and UKCA Approved
 CSA/UL Class 1 Division 2, Groups B, C and D

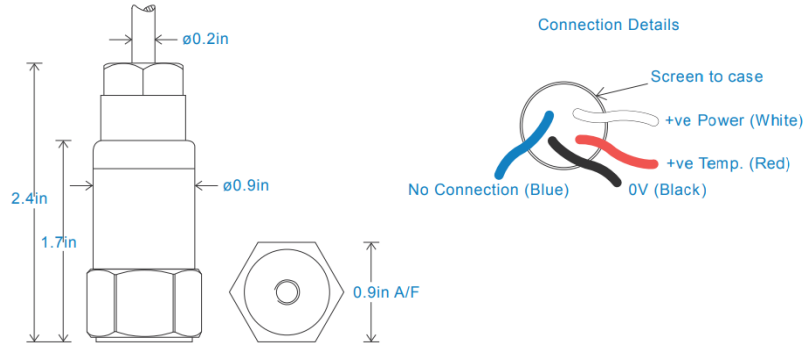
Mechanical

Case Material: Stainless Steel
 Sensing Element/Construction: PZT/Shear
 Mounting Torque: 5.9 ft-lbs (8 Nm)
 Weight: 4.9 Oz (139 gram), Sensor only
 Mating Connector: Flying Leads (White/Black/Red/Shield)
 Mounting Thread: 1/4"-28 UNF Female
 1/4"-28 UNF and M8x1.25 Mounting Studs Provided

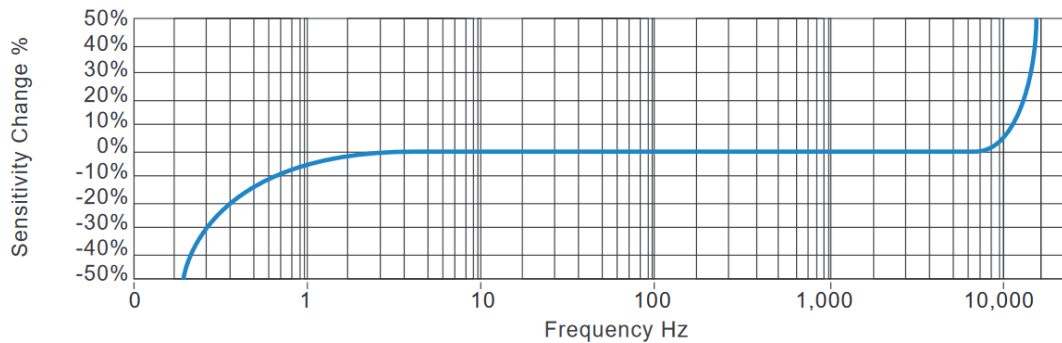
Hazardous Location Ratings

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



Typical Frequency Response



Ordering Information

CMCP788T-IP Premium Dual Top Entry Accelerometer with Temperature, 100 mV/g, PUR Integral Cable Length 5 Meter (16 ft), 1/4-28 UNF and M8x1.25 Mounting Studs
 CMCP788T-IPXX Premium Dual Top Entry Accelerometer with Temperature, 100 mV/g, Submersible
 (Specify Cable Length in Meters in Place of XX)

Alternative Sensitivity Ordering Information

Part Number	Sensitivity	Measurement Range	Base Resonance
CMCP788T-IP-10	10 mV/g	± 800 g	34 kHz
CMCP788T-IP-30	30 mV/g	± 250 g	33 kHz
CMCP788T-IP-50	50 mV/g	± 160 g	32 kHz
CMCP788T-IP-250	250 mV/g	± 32 g	28 kHz
CMCP788T-IP-500	500 mV/g	± 16 g	26 kHz

Similar Products

