



Condition Monitoring Custom Products

CMCP785T-I Dual Output Side Entry Accelerometer with Temperature Armored Cable



Features:

- Dual Output Accelerometer with Temperature
- 100mV/g $\pm 10\%$ and 10mV/ $^{\circ}\text{C}$
- 140 $^{\circ}\text{C}$ Max Temperature Range
- $\pm 80\text{g}$ Dynamic Range
- Integral Braided Armored Cable
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- 1/4"-28 or M8x1.25 Captive Mounting Bolt
- 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/ $^{\circ}\text{C}$ (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)
 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: 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/Compression
 Mounting Torque: 5.9ft. lbs (8Nm)
 Weight: 6.5 Oz (185 grams)
 Mating Connector: Flying Leads (Integral PUR Jacketed Cable)
 Mounting Thread:
 CMCP785T-I: 1/4"-28 UNF Captive Bolt Supplied with Sensor
 CMCP785T-I-M8: M8x1.25 Captive Bolt Supplied with Sensor

Hazardous Location Ratings

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

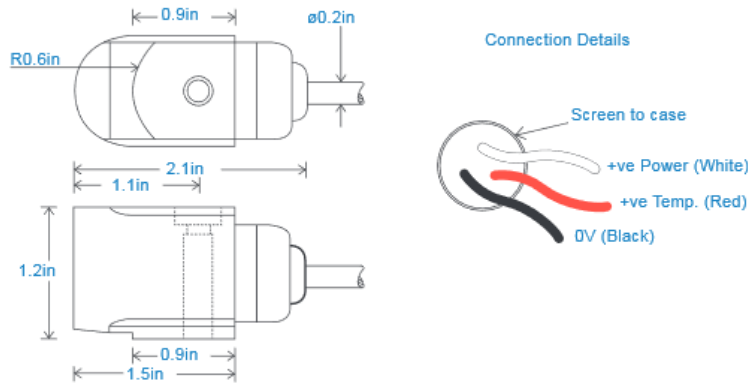
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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:

CMCP785T-**IXX**

Dual Output Side Entry Accelerometer with Temperature, 100mV/g, ¼-28 UNF Mount

CMCP785T-**IXX**-M8

Dual Output Side Entry Accelerometer with Temperature, 100mV/g, M8x1.25 Mount

(Specify Cable Length in Meters in Place of **XX**)

Alternative Sensitivity Ordering Information:

CMCP785T-I-**XXX**

Specify Sensitivity in Place of **-XXX**

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

Similar Products



MS Connector
CMCP785T



M12 Connector
CMCP785T-M12



Submersible
CMCP785T-IP