



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



Features

- Dual Output Accelerometer with Temperature
- 100 mV/g ±10% and 10 mV/°C
- 140°C Max Temperature Range
- ±80 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 UNF 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: 21 kHz (nominal)
 Sensitivity (Acceleration): 100 mV/g ±10% Nominal 80 Hz at 22°C
 Sensitivity (Temperature): 10 mV/°C (0-100°C Range)
 Frequency Response: 2.0 Hz to 10 kHz ±5% (120 cpm to 600 kcpm)
 1.5 Hz to 12 kHz ±10% (90 cpm to 720 kcpm)
 0.8 Hz to 15 kHz ±3dB (48 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: 1.5 Second
 Output Impedance: 200 Ohm Max.
 Case Isolation: >10⁸ Ohm at 500 Volt

Environmental

Operating Temperature Range: -67 to 284°F (-55 to 140°C)
 Sealing: IP65
 Maximum Shock: 5000 g
 Approvals: CE and UKCA Approved
 CSA/UL Class 1 Division 2, Groups B, C and D

Mechanical

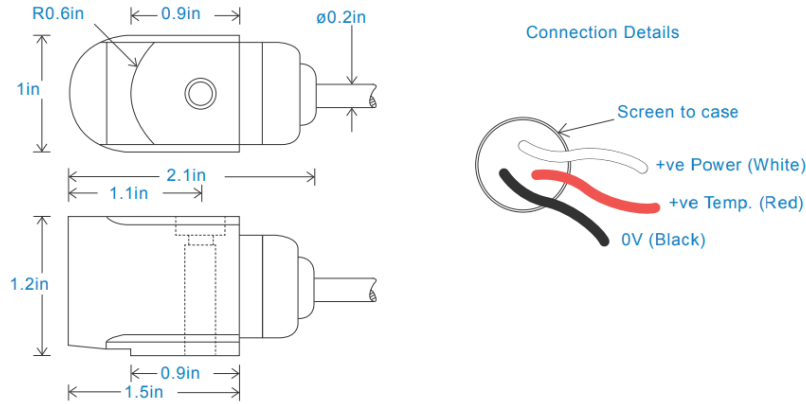
Case Material: Stainless Steel
 Sensing Element/Construction: PZT/Compression
 Mounting Torque: 5.9 ft-lbs (8 Nm)
 Weight: 6.5 Oz (185 gram)
 Mating Connector: Flying Leads (White/Black/Red/Shield)
 Mounting Thread:
 CMCP785T: 1/4"-28 UNF Captive Bolt Supplied with Sensor
 CMCP785T-M8: M8x1.25 Captive Bolt Supplied with Sensor

Condition Monitoring Custom Products

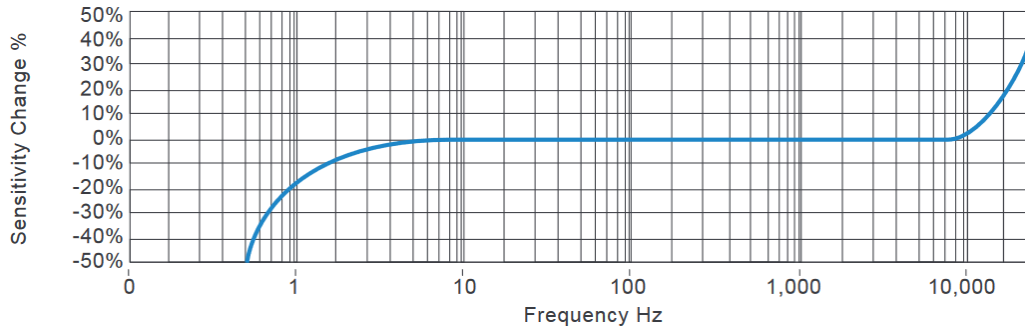
Hazardous Location Ratings

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



Frequency Response



Ordering Information

CMCP785T-I Dual Side Entry Accelerometer with Temperature, 100 mV/g, Armored Cable Length 5 Meter (16 ft), ¼-28 UNF Mount
 CMCP785T-**IXX** Dual Side Entry Accelerometer with Temperature, 100 mV/g, Armored Cable, ¼-28 UNF
 CMCP785T-**IXX**-M8 Dual Side Entry Accelerometer with Temperature, 100 mV/g, Armored Cable, M8x1.25
 (Specify Cable Length in Meters in Place of XX)

Alternative Sensitivity Ordering Information

Part Number	Sensitivity	Measurement Range	Base Resonance
CMCP785T-IXX-10	10 mV/g	±800 g	27 kHz
CMCP785T-IXX-30	30 mV/g	±250 g	25 kHz
CMCP785T-IXX-50	50 mV/g	±160 g	23 kHz
CMCP785T-IXX-250	250 mV/g	±32 g	19 kHz
CMCP785T-IXX-500	500 mV/g	±16 g	17 kHz

Similar Products

