



# CMCP785T-IP Dual Output Side Entry Accelerometer with Temperature Submersible PUR Jacketed Cable



### Features:

- Dual Output Accelerometer with Temperature
- 100mV/g ±10% and 10mV/°C
- 140°C Max Temperature Range
- ±80g Dynamic Range
- Submersible up to 100m
- Class 1 Division 2 Approved
- Class 1 Division 1 Approved with IS Barrier or Isolator
- ¼"-28 or M8x1.25 Captive Mounting Bolt
- 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 ±10% Nominal 80Hz at 22°C  
 Sensitivity (Temperature): 10mV/°C (0-100°C Range)  
 Frequency Response: 1.0 Hz to 10 kHz ±10% (60cpm to 600kcpm)  
 0.8 Hz to 12 kHz ±3dB (48cpm to 720kcpm)  
 Measurement Range: ±80 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<sup>8</sup> Ohms at 500 Volts

### Environmental

Operating Temperature Range: -67 to 284°F (-55 to 140°C)  
 Sealing: IP68 / Hermetically Sealed  
 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-IP: 1/4"-28 UNF Captive Bolt Supplied with Sensor  
 CMCP785T-IP-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

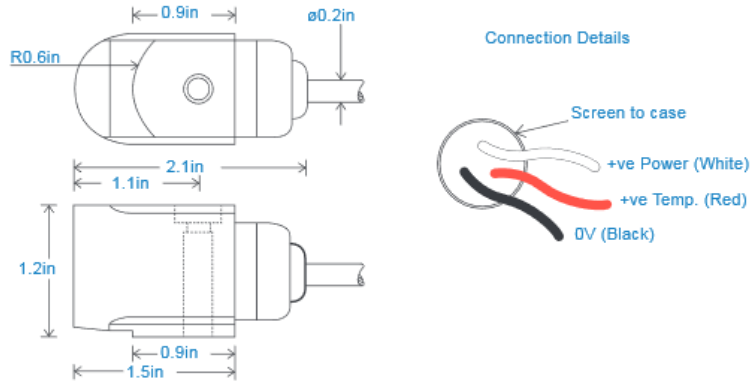
Class 1, Zone 0, AEx, ia, IIC, T4, Ga, -55°C to + 110°C

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-IPXX

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

CMCP785T-IPXX-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-IP-XXX

Specify Sensitivity in Place of -XXX

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

## Similar Products:



**CMCP785T-I**  
Integral Armored Cable



**CMCP785T-M12**  
M12 Eurofast Connector