



STI Vibration Monitoring Inc.

Vibration Monitoring and Machine Protection Systems

www.stiweb.com



CMCP785T

Dual Output Side Entry Accelerometer with Temperature 3 Pin MS 5015



Features

- Dual Output Accelerometer with Temperature
- 100 mV/g $\pm 10\%$ and 10 mV/ $^{\circ}\text{C}$
- 140 $^{\circ}\text{C}$ Max Temperature Range
- ± 80 g Dynamic Range
- 3 Pin MS 5015 Connector
- 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 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:	21 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:	2.0 Hz to 10 kHz $\pm 5\%$ (120 cpm to 600 kcpm)
	1.5 Hz to 12 kHz $\pm 10\%$ (90 cpm to 720 kcpm)
	0.8 Hz to 15 kHz $\pm 3\text{dB}$ (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:	$>10^8$ Ohm at 500 Volt

Environmental

Operating Temperature Range:	-67 to 284 $^{\circ}\text{F}$ (-55 to 140 $^{\circ}\text{C}$)
Sealing:	IP68
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:	3 Pin MS 5015
Recommended Cable Assembly:	CMCP603L or CMCP603H Series
Mounting Thread:	
CMCP785A:	1/4"-28 UNF Captive Bolt Supplied with Sensor
CMCP785A-M8:	M8x1.25 Captive Bolt Supplied with Sensor

1010 East Main Street
League City, Texas 77573
USA

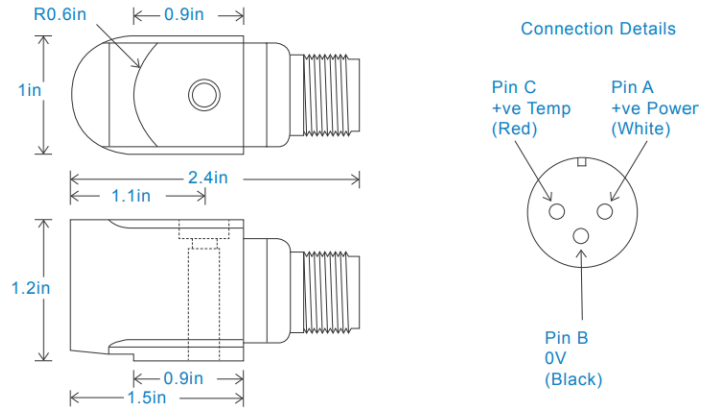
Phone: +1 (281) 334-0766
Fax: +1 (281) 334-4255
SalesSupport@stiweb.com

Condition Monitoring Custom Products

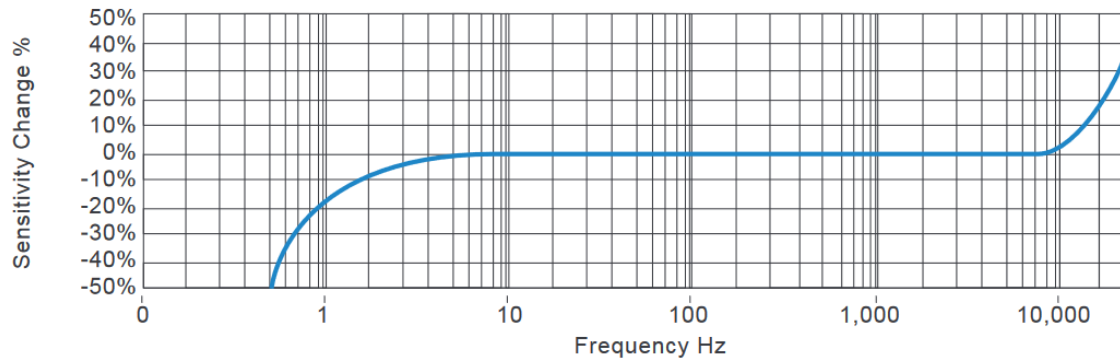
Hazardous Location Ratings

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 Dual Side Entry Accelerometer with Temperature, 100 mV/g, 3 Pin MS 5015, ¼-28 UNF Mount
 CMCP785T-M8 Dual Side Entry Accelerometer with Temperature, 100 mV/g, 3 Pin MS 5015, M8x1.25 Mount

Alternative Sensitivity Ordering Information

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

Similar Products

