

CMCP786T
Top Exit Accelerometer with Temperature Output

Features

- Standard 100mV/g and 10mV/°C Outputs
- Top Exit 3 Pin MS Connector
- 2-10kHz Frequency Response
- -55 to 100°C Temperature Range
- ±80g Range
- IP67

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:

22kHz (nominal)

Sensitivity:

100mV/g ±10% Nominal 80Hz at 22°C

Frequency Response:

2Hz to 10kHz ±5%

0.8Hz to 15kHz ±3dB

Isolation:

Base Isolated

Measurement Range:

±80 g

Temperature:

10mV/°C Standard 100°C Range

Transverse Sensitivity:

Less than 5%

Electrical

Electrical Noise:

0.1mg max

Current Range:

0.5mA to 8mA

Bias Voltage:

10-12 Vdc

Settling Time:

2 Seconds

Output Impedance:

200 Ohms max.

Case Isolation:

 >10⁸ Ohms at 500 Volts

Environmental

Operating Temperature Range:

-55 to 100°C (-67 to 212°F)

Sealing:

IP67

Maximum Shock:

5000 g

Mechanical

Case Material:

Stainless Steel

Sensing Element:

PZT/Compression Type

Mounting Torque:

70 Lb.-In

Weight:

3.88 Oz (110g)

Mounting:

1/4"-28 UNF Mounting Stud (Supplied with Sensor)

Mating Connector:

3 Pin MIL 5015 MS Type

Cable Type:

CMCP603 Series (Not Included with Sensor)

Mounting Accessories

See STI's Field Application Note on Accelerometer Transducer and Installation.

Mounting Tool Kit:

CMCP270-01

Mounting Pad:

CMCP200 Series

NPT Adapters:

CMCP203 Series

Cables:

CMCP603 Series

Thread Adapters:

CMCP237 Series Metric Adapters (1/4"-28 to M6, M8 and M10)

CMCP238 Series English Adapters (1/4"-28 to 5/16"-24 and 3/8"-24)

Optional Modifications:

 Non-Stocked Sensitivities:
(100mV/g Standard)

 10mV/g (-010), 30mV/g (-030), 50mV/g (-050), 250mV/g (-250)
and 500mV/g (-500)

Sensitivity specified after base part number (ex. CMCP786T-500)

