

CMCP788R-M12

Dual Output IEPE Accelerometer with PT100 Temperature Output
Top Exit, M12 Connector



Features

- Top Exit Dual Output Accelerometer
- Standard 100 mV/g $\pm 10\%$ Output
- Optional 10, 30, 50, 250 and 500 mV/g Outputs
- PT100 RTD Temperature Output (2 Wire)
- 4 Pin M12 Connector
- 150°C Max Operating Temperature
- ¼"-28 UNF and M8x1.25 Mounting Studs Included
- Sealed to IP67
- Lifetime Warranty

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:	100 mV/g $\pm 10\%$ Nominal 80 Hz at 22°C See "Alternate Sensitivities" for Other Options
Frequency Response:	1.5 Hz to 10 kHz $\pm 5\%$ (90 cpm to 600 kcpm) 0.5 Hz to 12 kHz $\pm 10\%$ (30 cpm to 720 kcpm) 0.2 Hz to 15 kHz $\pm 3\text{dB}$ (12 cpm to 900 kcpm)
Isolation:	Base Isolated
Measurement Range:	± 80 g
Transverse Sensitivity:	Less than 5%

Electrical

Electrical Noise:	0.1 mg max
Voltage Range :	18-30 VDC
Current Range:	0.5 mA to 8 mA
Bias Voltage:	50% of Supply Voltage Nominal
Settling Time:	1 Second
Output Impedance:	200 Ohm max.
Case Isolation:	$>10^8$ Ohm at 500 Volt

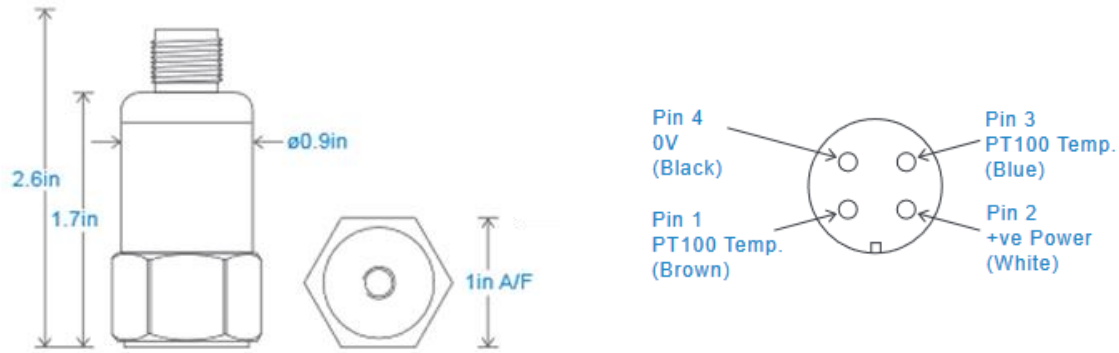
Environmental

Operating Temperature Range:	-67 to 302°F (-55 to 150°C)
Sealing:	IP67
Maximum Shock:	5000 g
Approvals:	CE and UKCA Approved

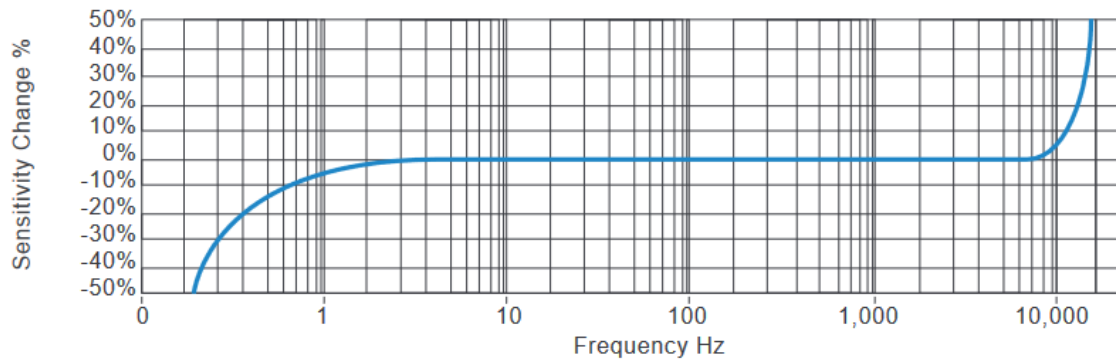
Mechanical

Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9 ft.lbs (8 Nm)
Weight:	3.7 Oz (104.8 gram)
Mating Connector:	4 Pin M12
Mounting Thread:	¼-28 UNF (Female) 1/4-28 UNF and M8x1.25 Mounting Studs Included

Dimensions and Wiring



Typical Frequency Response



Ordering Information:

CMCP788R-M12 Dual Output Accelerometer with PT100 Temperature Output, M12 Connector, 100 mV/g Output

Alternative Sensitivity Ordering Information:

CMCP788R-XXX-M12 Specify Sensitivity from Table Below in Place of -XXX

Sensitivity	Dynamic Range	Resonant Frequency
10 mV/g	± 800 g	1,680 kcpm (28 kHz)
30 mV/g	± 250 g	1,560 kcpm (26 kHz)
50 mV/g	± 160 g	1,440 kcpm (24 kHz)
250 mV/g	± 32 g	1,200 kcpm (20 kHz)
500 mV/g	± 16 g	1,080 kcpm (18 kHz)

Recommended Cable Assemblies:

CMCP605M-01 Series M12 Cable Assembly, Straight Connector
 CMCP605M-02 Series M12 Cable Assembly, Side Exit Cable

Note: Due to STI's continuous process improvement, specifications are subject to change without notice.