



CMCP1100 General Purpose Industrial Accelerometer

Features

- Small Size Case, 1/2" x 1.05",
- Small Footprint, 1/2"
- Integral Cable (5, 10 or 20 Meters)
- 100 mV/g Sensitivity
- 0.32 Hz to 10 KHz Frequency Range (± 3 dB)
- Waterproof
- LOW COST

DYNAMIC PERFORMANCE	ENGLISH	SI
Sensitivity ($\pm 10\%$)	100 mV/g	10.2 mV/(m/s ²)
Measurement Range	± 50 g	± 490 m/s ²
Frequency Range: (± 3 dB)	20 – 600k cpm	0.32 – 10k Hz
Mounted Resonant Frequency	1320k cpm	22k Hz
Amplitude Linearity	$\pm 1\%$	$\pm 1\%$
Transverse Sensitivity	$\leq 7\%$	$\leq 7\%$
ENVIRONMENTAL		
Shock Limit	5,000 g pk	49k m/s ² pk
Temperature Range	-65 to +185° F	-48 to 85° C
ELECTRICAL		
Settling Time	≤ 2 sec	≤ 2 sec
Excitation Voltage	18 to 30 VDC	18 to 30 VDC
Excitation Constant Current	2 to 20 mA	2 to 20 mA
Output Impedance	<150 ohms	<150 ohms
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC
Electrical Case Isolation	$>10^8$ ohms	$>10^8$ ohms
Electrical Protection	RFI/ESD	RFI/ESD
Integral Cable	22 AWG, 221° F	22 AWG, 105° C
MECHANICAL		
Size	0.5 x 1.05"	12.7 x 26.67 mm
Weight (including 5 M cable)	2.5 oz	70.7 g
Mounting Thread	1/4-28 UNF-2B	1/4-28 UNF-2B
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m
Sensing Element	Ceramic/Shear	Ceramic/Shear
Case Material	Stainless Steel	Stainless Steel
Sealing	Potted	Potted
Wrench Flats	7/16"	7/16"



Ordering Information:

Part No.	-XX	-XX	Description
CMCP1100			Low Cost Industrial Accelerometer
CMCP1100S			Side Exit
	05		5 Meter Integral Cable (16.5 feet)
	10		10 Meter Integral Cable (33 feet)
	20		20 Meter Integral Cable (66 feet)
	XX		Specify Length
		-00	Blunt Cut
		-01	Female BNC Connector

Spectral Noise:

10 Hz:	8 μ g / $\sqrt{\text{Hz}}$	78.5 (mm/s ²) / $\sqrt{\text{Hz}}$
100 Hz:	5 μ g / $\sqrt{\text{Hz}}$	49.1 (mm/s ²) / $\sqrt{\text{Hz}}$
1000 Hz:	4 μ g / $\sqrt{\text{Hz}}$	39.2 (mm/s ²) / $\sqrt{\text{Hz}}$