



Sales Technology Inc

Condition Monitoring Custom Products
"Vibration Monitoring and Machine Protection Systems"

2911 S. Shore Blvd., Ste. 170, League City, TX 77573 Phone: 281.334.0766 Fax: 281.334.4255

Condition Monitoring Custom Products

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 Freq.	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	-54 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 ⁹ ohms	>10 ⁹ 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"



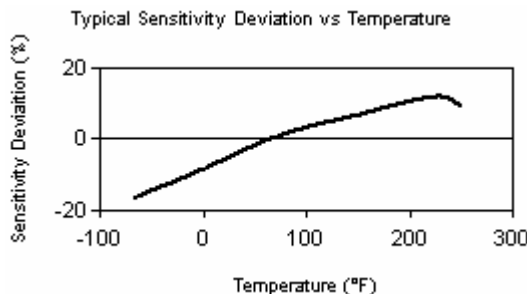
Ordering Information:

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

Your STI representative company:



Although care has been taken to assure the accuracy of the data compiled in this publication, Sales Technology, Inc. (STI) does not assume any liability for errors or omissions. STI reserves the right to alter any part of this publication without prior notice.

(5/3/01) Copyright © 1999-2001 by Sales Technology, Inc.
 ALL RIGHTS RESERVED

www.stiweb.com