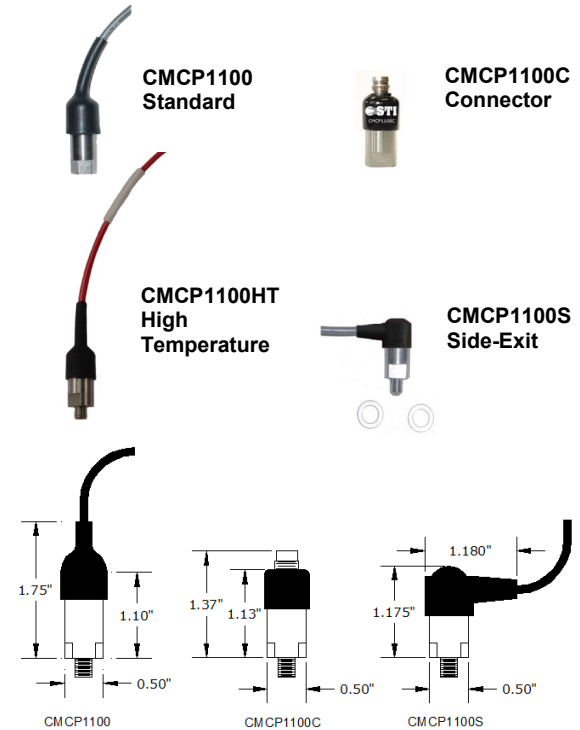


# CMCP1100 Series General Purpose Industrial Accelerometers

## Features

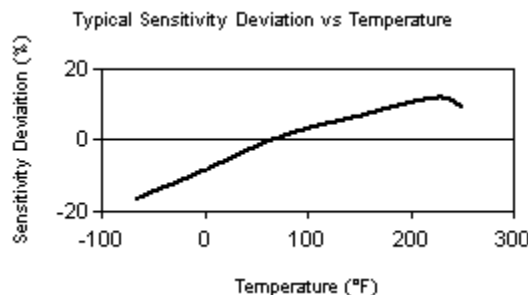
- Small Size Case, 1/2" x 1.05",
- Small Footprint, 1/2"
- 8 mm Connector or Integral Cable (5, 10 or 20 Meters)
- 100 mV/g Sensitivity
- 0.32 Hz to 10 KHz Frequency Range ( $\pm 3$  dB)
- Waterproof (Integral Cable Versions)
- LOW COST

| DYNAMIC PERFORMANCE            | ENGLISH               | SI                          |
|--------------------------------|-----------------------|-----------------------------|
| Sensitivity ( $\pm 10\%$ )     | 100 mV/g              | 10.2 mV/(m/s <sup>2</sup> ) |
| Measurement Range              | $\pm 50$ g            | $\pm 500$ m/s <sup>2</sup>  |
| Frequency Range: ( $\pm 3$ dB) | 0.32 – 10k Hz         | 0.32 – 10k Hz               |
| Mounted Resonant Freq.         | >25 kHz               | 25 kHz                      |
| Amplitude Linearity            | $\leq 1\%$            | $\leq 1\%$                  |
| Transverse Sensitivity         | $\leq 5\%$            | $\leq 5\%$                  |
| <b>ENVIRONMENTAL</b>           |                       |                             |
| Shock Limit                    | 7,000 g pk            | 70k m/s <sup>2</sup> pk     |
| Temperature Range (STD)        | -65 to +185° F        | -54 to 85° C                |
| Temperature Range (HT)         | -65 to 250° F         | -54 to 120° C               |
| <b>ELECTRICAL</b>              |                       |                             |
| Settling Time                  | 2.5 sec               | 2.5 sec                     |
| Excitation Voltage             | 18 to 28 VDC          | 18 to 28 VDC                |
| Excitation Constant Current    | 2 to 20 mA            | 2 to 20 mA                  |
| Output Impedance               | <100 ohms             | <100 ohms                   |
| Output Bias Voltage            | 8 to 12 VDC           | 8 to 12 VDC                 |
| Electrical Case Isolation      | >10 <sup>8</sup> ohms | >10 <sup>8</sup> ohms       |
| Electrical Protection          | RFI/ESD               | RFI/ESD                     |
| Integral Cable                 | 22 AWG, 221° F        | 22 AWG, 105° C              |
| <b>MECHANICAL</b>              |                       |                             |
| Size                           | 0.360 x 0.376"        | 9.14 x 9.55 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  |
| CMCP1100HT |     |     | High Temperature                   |
| CMCP1100S  |     |     | Side Exit                          |
| CMCP1100C  |     |     | w/ 8mm Connector                   |
|            | 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:

|          |                                      |  |
|----------|--------------------------------------|--|
| 1 Hz:    | 85 $\mu\text{g} / \sqrt{\text{Hz}}$  | 850 ( $\mu\text{m/s}^2$ ) / $\sqrt{\text{Hz}}$ |
| 10 Hz:   | 10 $\mu\text{g} / \sqrt{\text{Hz}}$  | 100 ( $\mu\text{m/s}^2$ ) / $\sqrt{\text{Hz}}$ |
| 100 Hz:  | 2.7 $\mu\text{g} / \sqrt{\text{Hz}}$ | 27 ( $\mu\text{m/s}^2$ ) / $\sqrt{\text{Hz}}$  |
| 1000 Hz: | 1.0 $\mu\text{g} / \sqrt{\text{Hz}}$ | 10 ( $\mu\text{m/s}^2$ ) / $\sqrt{\text{Hz}}$  |

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