

## APPLICATIONS

- Testing for automotive industry
- Instrumentation
- Vibration measurement
- Speed measurement
- Rotating system (motor) testing
- Impact recording
- Preventive maintenance
- Buildings and public works



## DESCRIPTION

The CMCP1100 100 mV/g accelerometer with integral 5, 10 or 20 meter cable is manufactured to high quality standards. Each accelerometer is sealed in a waterproof stainless steel case.

**TECHNICAL FEATURES**

**Mounted base resonance** >25 kHz (nominal)

**Sensitivity** 100mV/g  $\pm 5\%$  Nominal 80Hz to 22°C

**Frequency response** 1.5 Hz to 8 kHz  $\pm 10\%$  (90cpm to 480kcpm)  
0.32 Hz to 10 kHz  $\pm 3\text{dB}$  (de19.2cpm to 600kcpm)

**Isolation** Case isolated

**Measurement range**  $\pm 50$  g

**Transverse sensitivity** Less than 5%

Electrical

**Excitation voltage** 18 to 28 VDC

**Electrical noise** 0,1 mg max

**Current range** 2 to 20 mA

**Bias voltage** 8-12 VDC

**Setting time** 0,2 second

**Output impedance** < 100 Ohms max.

**Case isolated** >10<sup>8</sup> Ohms to 500 V

Environmental

**Operating temperature range** -65 to 185°F (-54 to 85°C)

**Sealing** Epoxy Encapsulated

**Maximum shock** 7,000 g

**Approvals** C.E.

Mechanical

**Case material** Stainless steel

**Sensing element** PZT/Shear

**Mounting torque** 5.9 ft. lbs (8Nm)

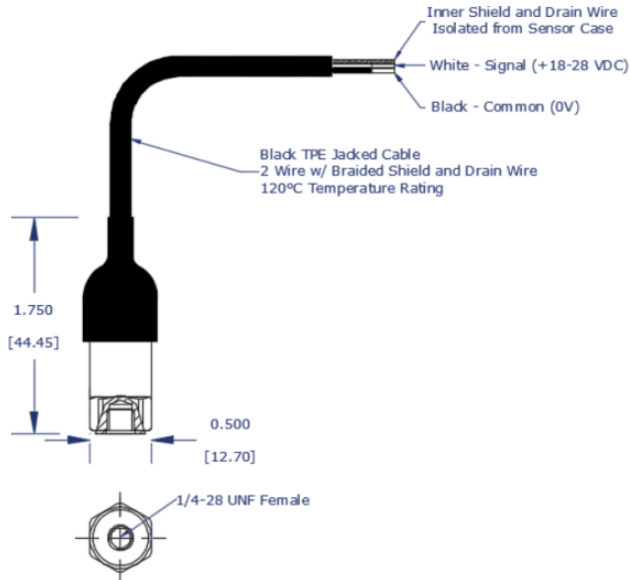
**Weight** 2.5 Oz (70.7 grams)

**Cable jacket** TPE

**Cable length** See ordering code

**Mounting thread** 1/4-28 UNF

**STANDARD DIMENSIONS**



**ORDER CODE**

CMCP1100	-XX	-XX	-XX	Description
	-05			5 Meter (16') Integral Cable
	-10			10 Meter (32') Integral Cable
	-20			20 Meter (64') Integral Cable
		-00		Flying Leads (Bare Wire)
		-01		Female BNC Connector
		-02		Male BNC Connector
			-00	Standard TPE Cable
			-03	TPE Jacketed Cable with Stainless Steel Braided Armor

*SPHEREL Systems reserves the right to make any kind of design or functional modification at any moment without prior notice.*