

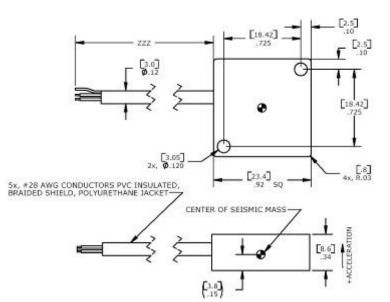
CE

Signal Conditioned DC Response Temperature Compensated Micro-G Resolution

The Model 4002 is a low frequency DC response accelerometer with exceptional resolution. The accelerometer is designed for optimum signal-to-noise ratio and offers an amplified signal conditioned output. Available in ranges from ±2 to ±200g the accelerometer is ideal for low frequency measurements in temperature ranges of -20°C to +85°C. The MEMS sensing element is gas damped with a broad and stable frequency response.



dimensions

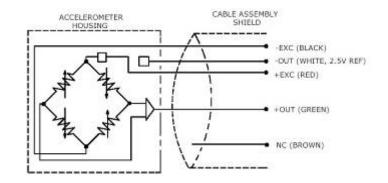


FEATURES

- ±2g to ±200g Dynamic Range
- Amplified, Filtered Output
- 8 to 32Vdc Excitation
- Gas Damped MEMS Element
- Micro-g Resolution
- DC, Low Frequency Response

APPLICATIONS

- Low Frequency Testing
- Motion Control
- Tilt Measurements
- Test & Instrumentation
- Transportation Measurements





performance specifications

All values are typical at +24°C, 100Hz and 12Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	±2 1000 0-200 700 ±0.5 <3 0.7 5000	±5 400 0-300 800 ±0.5 <3 0.7 5000	±10 200 0-350 1000 ±0.5 <3 0.7 5000	±20 100 0-600 1500 ±0.5 <3 0.7 5000	±50 40 0-800 4000 ±0.5 <3 0.7 5000	±100 20 0-1300 6000 ±0.5 <3 0.7 5000	±200 10 0-1500 8000 ±0.5 <3 0.6 5000	Notes ±5% <1 Typical
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Resistance (Ω) Insulation Resistance (M Ω) Residual Noise (μ V RMS) Ground Isolation	±100 8 to 32 <5 2.5 <100 >100 300 Isolated	±100 8 to 32 <5 2.5 <100 >100 250 from Mour	±100 8 to 32 <5 2.5 <100 >100 250 nting Surfa	±100 8 to 32 <5 2.5 <100 >100 300 ce	±100 8 to 32 <5 2.5 <100 >100 350	±100 8 to 32 <5 2.5 <100 >100 350	±100 8 to 32 <5 2.5 <100 >100 350	Differential @100Vdc Passband
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Compensated Temperature (°C) Storage Temperature (°C)	±0.057 ±0.071 -20 to 85 0 to 70 -40 to 90		±0.057 ±0.071	±0.057 ±0.071	±0.057 ±0.071	±0.057 ±0.071	±0.057 ±0.071	(0 to 70°C) (0 to 70°C)
PHYSICAL Case Material Cable Weight (grams) Mounting Mounting Torque AWG	Anodized Aluminum PVC Insulated Leads, Braided Shield, PU Jacket 7 2x #4 or M3 Screws 3 Ib-in (0.3 N-m) #28							
Wiring color code: +Excitation = Red; -Excitation = Black; +Output = Green; -Output = White; Programming = Brown (brown wire is used for programming and is not to be connected)								

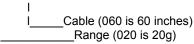
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ordering info

PART NUMBERING

Model Number+Range+Cable Length

4002-GGG-CCC



Example: 4002-020-060 Model 4002, 20g, 60" (5ft) Cable 北京赛斯维测控技术有限公司 北京市朝阳区望京西路48号 金隅国际D座302 电话: +86 010 8477 5646 传真: +86 010 5894 9029 邮箱: <u>Sales@sensorway.cn</u>

http://www.sensorway.cn