



SPECIFICATIONS

- DC Response Accelerometer
- Low Cost, Miniature Package
- Gas Damped MEMS
- Reliable Performance

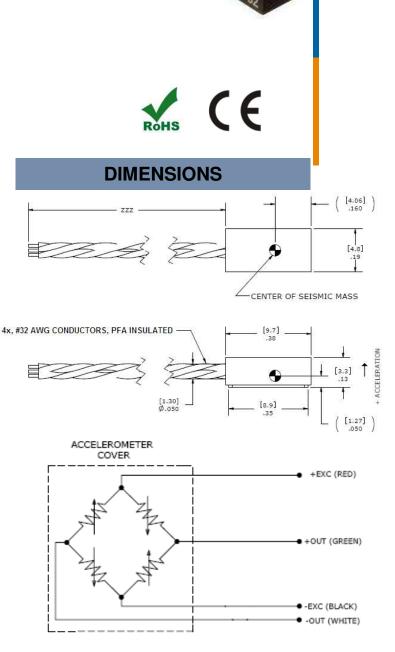
The **Model 52 Accelerometer** is based on an advanced piezoresistive MEMS sensing element which offers exceptional dynamic range and stability. This unit features a full bridge output configuration with an operating temperature range from -40 to +90°C. A slight amount of internal gas damping provides outstanding shock survivability

FEATURES

- Piezoresistive MEMS Sensor
- ±50g to ±2,000g Ranges
- 2-10 Vdc Excitation
- <± 50 mV Zero Offset
- -40 to +90 °C Temperature Range

APPLICATIONS

- Safety Impact Testing
 - Auto
 - Truck
 - Recreational Vehicles
- Shock Testing



SENSOR SOLUTIONS /// Model 52 Rev A

PERFORMANCE SPECIFICATIONS

All values are typical at ± 24 °C, 80Hz and 10Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range(g)	±50	±200	±500	±2000	Notes	
Sensitivity (mV/g) ¹ Frequency Response (Hz)		2 0-400 0-1000 0-1400	0.9 0-600 0-1400 0-1900	0.4 0-800 0-2000 0-2800	0.15 0-2000 0-5000 0-7000	±2% ±5% ±1dB
Resonant Frequency (Hz) Non-Linearity (% FSO) Transverse Sensitivity (%) Shock Limit (g)		4000 ±1 <3 5000	8000 ±1 <3 5000	15000 ±1 <3 5000	26000 ±1 <3 5000	100
ELECTRICAL Zero Acceleration Output (mV) Excitation (Vdc) Input Resistance Output Resistance (Ω) Insulation Resistance (M Ω) Ground Isolation		<±50 2 to 10 2400-6000 2400-6000 >100 Isolated from mounting surface				@100Vdc
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C(%FSO/°F))* Thermal Sensitivity Shift (%/°C(%/°F))* Operating Temperature (°C) Storage Temperature (°C) Humidity		±0.05 (±0.03) -0.20 ±0.05 (-0.11 ±0.03) -40 to +90 -40 to +90 Epoxy Sealed, IP61				0°C to +50°C 0°C to +50°C
PHYSICAL Case Material Cable (Integral 30 Foot Cable) Weight (grams) Mounting		Plastic 4x #32 AWG Conductors PFA Insulated 0.5 Adhesive				Cable not included
¹ Output is ratiometric to excitation voltage						
Calibration supplied: CS	CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz					
Optional accessories: 12 14	21 40A	Three Channel DC Signal Conditioner Amplifier Auto-zero Inline Amplifier				

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ORDERING INFORMATION

PART NUMBERING Model Number+Range+Excitation+Cable Length+Options

52-GGGG-CCC-ZZ

Options Т I Cable (360 is 360 inches) Range (0100 is 100 g)

Optional Dash Numbers

- -01 5Vdc Calibration -02 2Vdc Calibration
- -03 3.3Vdc Calibration

Example: 52-2000-360

Model 52, 2000g, 360" (30ft) Cable), No Options.



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