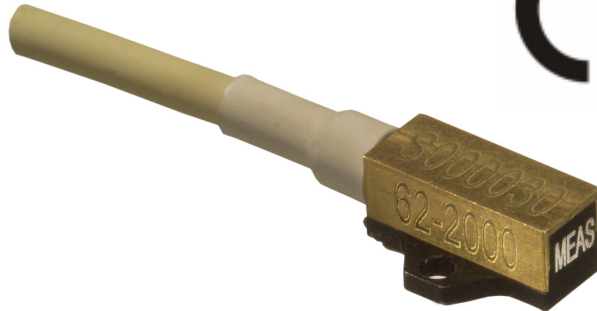


Model 62 Accelerometer

DC Response
Durable Cable
Small Package
Reliable Performance



The Model 62 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 a temperature range from 0 to +50° C. A slight amount of internal gas damping provides outstanding shock survivability and a flat amplitude/phase response up to 7kHz. The Model 62 is compliant with SAE J211 standards for anthropomorphic dummy instrumentation.

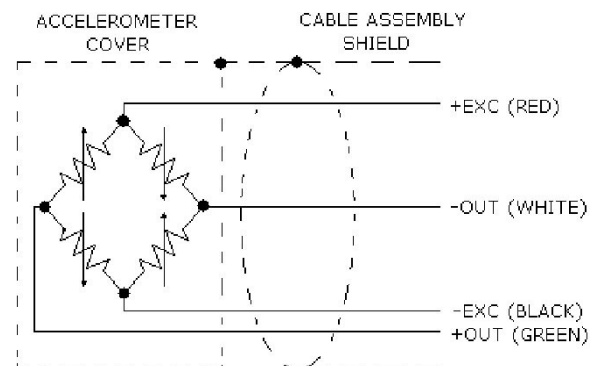
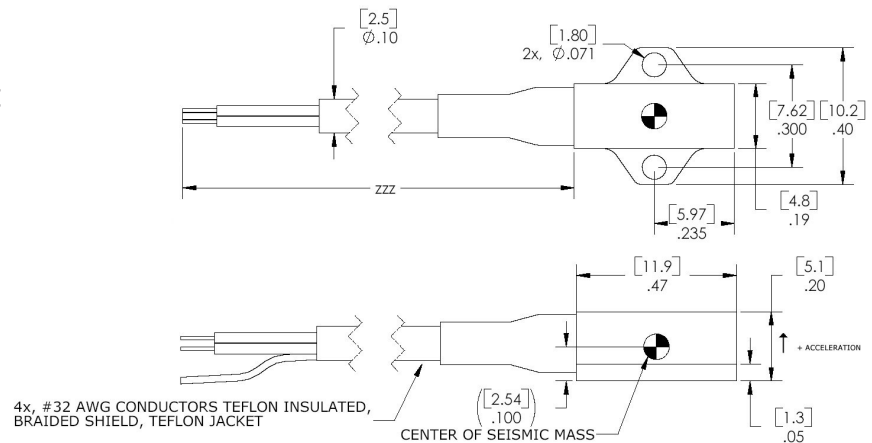
FEATURES

- 2nd GEN MEMS Sensing Element
- ± 50 to $\pm 6,000$ g Ranges
- 2-10 Vdc Excitation for Maximum Flexibility
- 0-50°C Temperature Compensated Range
- High Impact Jacketed Cable
- 1% Transverse Sensitivity Available
- $<\pm 25$ mV Zero Offset

APPLICATIONS

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

dimensions



Model 62 Accelerometer

performance specifications

All values are typical at $\pm 24^{\circ}\text{C}$, 100 Hz and 10 Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters

DYNAMIC

	± 50	± 100	± 200	± 500	± 2000	± 6000	Notes
Range(g)	± 50	± 100	± 200	± 500	± 2000	± 6000	
Sensitivity (mV/g)	0.2	0.9	0.5	0.4	0.15	0.05	
Frequency Response (Hz)	0-400 0-1000 0-1400	0-500 0-1200 0-1500	0-600 0-1500 0-2100	0-800 0-2000 0-2800	0-2000 0-5000 0-7000	0-2000 0-5000 0-7000	$\pm 2\%$ $\pm 5\%$ $\pm 1 \text{ dB}$
Natural Frequency (Hz)	4000	6000	8000	15000	26000	26000	
Non-Linearity (% of reading)	± 1	± 1	± 1	± 1	± 1	± 1	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<3	
Thermal Zero Shift (%FSO/ $^{\circ}\text{C}$)	± 0.04	± 0.04	± 0.04	± 0.04	± 0.04	± 0.04	From 0 to $+50^{\circ}\text{C}$
Thermal Sensitivity Shift (%/ $^{\circ}\text{C}$)	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	From 0 to $+50^{\circ}\text{C}$

ELECTRICAL

Zero Acceleration Output (mV)	$<\pm 25$	$<\pm 25$	$<\pm 25$	$<\pm 25$	$<\pm 25$	$<\pm 25$	
Excitation (Vdc)	2 to 10	2 to 10	2 to 10	2 to 10	2 to 10	2 to 10	
Input Resistance	3500-4800	3500-4800	3500-4800	3500-4800	3500-4800	3500-4800	
Output Resistance (Ω)	1700-4800	1700-4800	1700-4800	1700-4800	1700-4800	1700-4800	
Insulation Resistance (M Ω)	>100	>100	>100	>100	>100	>100	@50Vdc Cable shield to case.
Ground Isolation							

ENVIRONMENTAL

Shock Limit (g)	5000	5000	5000	5000	5000	5000	
Operating Temperature ($^{\circ}\text{C}$)							-40 to $+121$

PHYSICAL

Case Material / Cover Material	Anodized Aluminum / Brass						
Cable (Integral 30 Foot Cable)							4 x 32 AWG Conductors Cable Not Included Torque 3 lb-in
Weight (grams)	1	1	1	1	1	1	
Mounting	2x 0=80 x 3/16 socket head cap screws						

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ordering info

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

62-GGGG-VV-CCC-XY

| | | | Options
 | | | Cable (360 is 360 inches)
 | | Excitation voltage
 | Range (0100 is 100 g)

Example: 62-2000-10-360-XY

Model 62,2000g, 10V Excitation, 360" (30ft) Cable), No Options.