

DC Response **Durable Cable Small Package** Reliable Performance



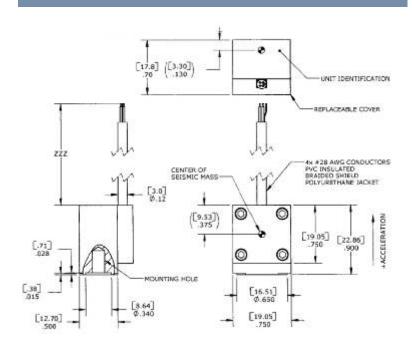
The Model 61 Accelerometer

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 -20°C to 85°C. This unit exhibits superior shock survivability and a flat amplitude/phase response up to 5kHz.

FEATURES

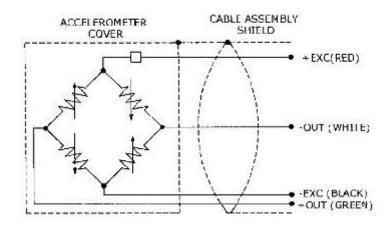
- 2nd GEN MEMS Sensing Element
- 2000 g Full Scale Range
- 2-10 Vdc Excitation
- <± 25 mV Zero Offset
- 1% Transverse Sensitivity Available

dimensions



APPLICATIONS

- In-Dummy
 - Head
 - Thorax
 - Pelvic



Model 61 Rev. 2

www.meas-spec.com

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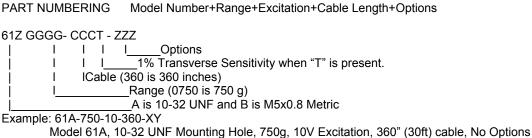
performance specifications

All values are typical at ±24°C, 100 Hz and 10 Vdc 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			Notes
Range(g)	±750	±2000	
Sensitivity (mV/g)	.35	.15	
Frequency Response (Hz)	0-2000	0-3000	± 5%
	0-3000	0-5000	± 1 dB
Natural Frequency (Hz)	>20,000	>26,000	
Non-Linearity (% FSO)	±1	±1	Of Reading
Transverse Sensitivity (%)	<3	<3	
Thermal Zero Shift (%FSO/°C)	±0.4	±0.4	From 0 to +50°C
Thermal Sensitivity Shift (%/°C)	±0.4	±0.4	From 0 to +50°C
ELECTRICAL			
Zero Acceleration Output (mV)	<±25	<±25	
Transverse Sensitivity	<3	<3	
Non-Linearity	±1	±1	
Excitation (Vdc)	2 to 10	2 to 10	
Input Resistance	6500-7800	6500-7800	
Output Resistance (Ω)	2400-4800	2400-4800	
Insulation Resistance (MΩ)	>100	>100	@50Vdc
Ground Isolation			Shield attached to cover.
ENVIRONMENTAL			
Shock Limit (g)	5000	5000	
Operating Temperature (°C)	-23 to +85	-23 to +85	
Operating remperature (C)	-23 10 103	-23 10 103	
PHYSICAL			
Case Material			Aluminum
Cable (Integral 30 Foot Cable)			4 x 28 AWG Conductors
Cable (Insulation Material)			Polyurethane
Weight (grams)	18	18	Cable Not Included
Mounting	10-32 UNF or M5 x 0.8		Torque 18 lb-in

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ordering info



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