

DC Response
Durable Cable
Small Package
Reliable Performance



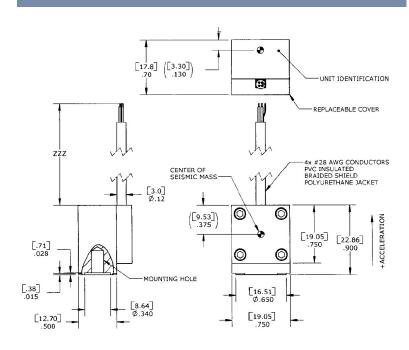
#### The Model 61 Accelerometer

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**

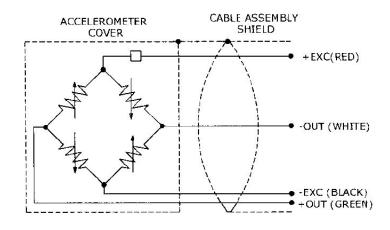
- 2nd GEN MEMS Sensing Element
- 2000 g Full Scale Range
- 2-10 Vdc Excitation
- <± 25 mV Zero Offset</li>
- 1% Transverse Sensitivity Available

#### dimensions



## **APPLICATIONS**

- In-Dummy
  - Head
  - Thorax
  - Pelvic



# **Model 61 Accelerometer**



### 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.

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

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### ordering info

