

DC Response Accelerometer
Durable Cable, Small Package
±750 & ±2000g Ranges
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.

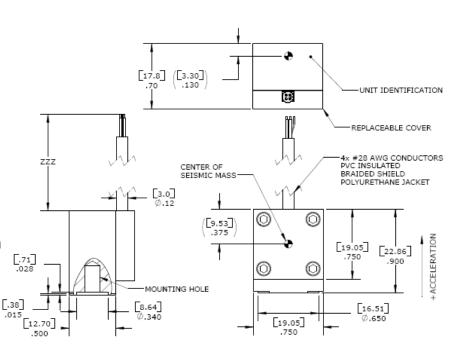
FEATURES

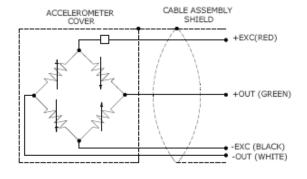
- 2_{nd} GEN MEMS Sensing Element
- 2000 g Full Scale Range
- 2-10 Vdc Excitation
- <± 25 mV Zero Offset
- 1% Transverse Sensitivity Option

APPLICATIONS

- In-Dummy
 - Head
 - Thorax
 - Pelvic

dimensions





Model 61 Accelerometer



@50Vdc

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.

		Notes
±750	±2000	
.35	.15	
0-2000	0-3000	± 5%
0-3000	0-5000	± 1 dB
>20,000	>26,000	
±1	±1	Of Reading
<3	<3	
±0.04	±0.04	From 0 to +50°C
±0.10	±0.10	From 0 to +50°C
	.35 0-2000 0-3000 >20,000 ±1 <3 ±0.04	.35 .15 0-2000 0-3000 0-3000 0-5000 >20,000 >26,000 ±1 ±1 <3 <3 ±0.04 ±0.04

ELECTRICAL

Zero Acceleration Output (mV) $<\pm25$ Excitation (Vdc) 2 to 10 Input Resistance 5700-7800 Output Resistance (Ω) 2400-5000 Insulation Resistance (M Ω) >100

Ground Isolation Shield attached to cover

ENVIRONMENTAL

Shock Limit (g) 5000 Operating Temperature (°C) -23 to +85

Humidity Epoxy Sealed, IP61

PHYSICAL

Case Material Aluminum

Cable (Integral 30 Foot Cable) 4x #28 AWG, Braided Shield, PU Jacket

Weight (grams)

18
Cable Not Included

Mounting

10-32 UNF or M5 x 0.8
Torque 18 lb-in

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Limit

Optional accessories: 101 Three Channel DC Signal Conditioner Amplifier

140 Auto-zero Inline Amplifier

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

ordering info

Example: 61A-750-10-360-XY

Model 61A, 10-32 UNF Mounting Hole, 750g, 10V Excitation, 360" (30ft) cable, No Options