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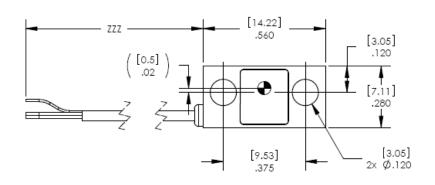
Model 3700 Accelerometer

Shock & Impact Testing Piezoresistive MEMS mV Output, DC Response Low Noise, Shielded Cable

The Model 3700 is a MEMS piezoresistive shock accelerometer in a rugged stainless steel package. The accelerometer is available in ranges from is offered in ranges from ±50 to ±6000g and is ideal for long duration shock transient measurements. The accelerometer incorporates mechanical over-range stops and is packaged in an industry standard footprint.



dimensions

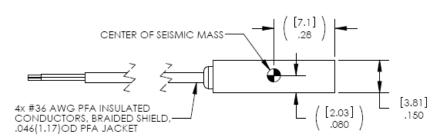


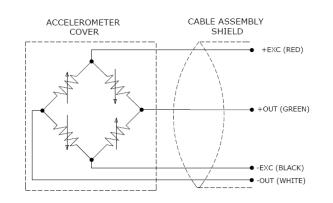
FEATURES

- ±50g to ±6000g Dynamic Range
- 10,000g Shock Protection
- Environmentally Sealed
- Gas Damping
- mV Output
- Stainless Steel Housing
- Bolt Mounted

APPLICATIONS

- Impact Testing
- Structural Testing
- Transient Shock Testing
- Auto Safety Applications







Model 3700 Accelerometer

performance specifications

All values are typical at +24°C, 100Hz and 10Vdc 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 Range (g) Sensitivity (mV/g) ¹ Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	±50 2.0 0-1000 4000 ±1.0 <3 0.6 10000	±100 0.9 0-1400 6000 ±1.0 <3 0.5 10000	±200 0.7 0-1500 8000 ±1.0 <3 0.5 10000	±500 0.4 0-2000 15000 ±1.0 <3 0.3 10000	±2000 0.15 0-5000 24000 ±1.0 <3 0.15 10000	±6000 0.08 0-5000 26000 ±2.0 <3 0.1 10000	Notes @10Vdc Excitation ±5%	
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (M Ω) Residual Noise (μ V RMS) Ground Isolation	<±25 2 to 10 2400-6000 2400-6000 >100 <10 Isolated fror	n mounting s	urface				Differential @100Vdc	
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Storage Temperature (°C) Humidity	rmal Zero Shift (%FSO/°C)±0.04rmal Sensitivity Shift (%/°C)-0.15erating Temperature (°C)-55 to +125rage Temperature (°C)-55 to +125					Typical Typical		
PHYSICALCase MaterialStainless SteelCable4x #36 AWG Leads, PFA Insulated, Braided Shield, PFA JacketWeight (grams)2.1Mounting2x #4-40 or M3 Mounting ScrewsMounting Torque8 lb-in (0.9 N-m)1 Output is ratiometric to excitation vultage								
Calibration supplied: CS	S-FREQ-0100	FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to $\pm 5\%$ Frequency Limit						
Supplied accessories: 2x	2x #4-40 Mounting Screws (1/4 inch length)							
Optional accessories: AC 10 14	1 -	Triaxial Mounting Block Three Channel DC Signal Conditioner Amplifier Auto-Zero Inline Amplifier						

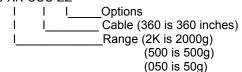
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ordering info

PART NUMBERING

Model Number+Range+Cable Length+Options

3700-XK-CCC-ZZ



Optional Dash Numbers-015Vdc Calibration-022Vdc Calibration

Example: 3700-2K-120 Model 3700, 2000g, 120" (10ft) Cable