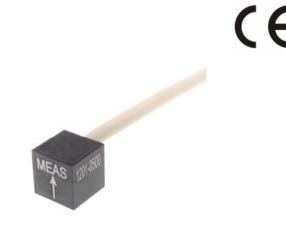


## **Model 1201 Accelerometer**

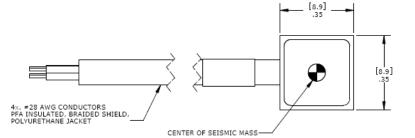
DC Response Accelerometer Durable, Low Noise Cable Vehicle Crush Zone Testing Low Cost, High Performance

**The Model 1201 Accelerometer** is a small, compact uniaxial device designed for vehicle impact and road testing. Its mechanical overload stops provide high shock protection in rugged applications. Featuring ranges from ±50 g to ±1000g and frequency response to 3000 Hz, this sensor is easily mounted in hard to get places on vehicles under test.

For a similar accelerometer designed for bolt mounting, see the model 1201F.



### dimensions

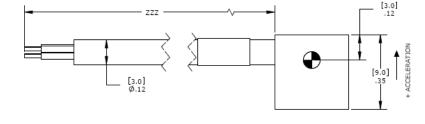


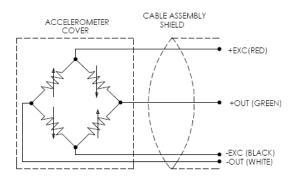
### **FEATURES**

- Advanced MEMS Sensing Element
- ±50g to ±1000 g Dynamic Range
- 2-10 Vdc Excitation
- 0-50 °C Temperature Range
- ±40 mV Zero Measurand Output
- Gas Damping
- Connector Options
- Mechanical Overload Stops

### **APPLICATIONS**

- Crash Testing
- Crush Zone Testing
- Impact Testing
- Off-Road Testing
- Transportation Testing







# **Model 1201 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. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

Parameters DYNAMIC	-0050	-0100	-0200	-0500	-1000		Notes
Range(g) Sensitivity (mV/g) <sup>1</sup> Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (% FS) Damping Ratio Transverse Sensitivity (%) Shock Limit (g)	±50 2.0 0-800 2000 ±1 0.7 <3 3000	±100 0.9 0-1000 3000 ±1 0.7 <3 3000	±200 0.9 0-1400 4000 ±1 0.7 <3 4000	±500 0.40 0-2000 6000 ±1 0.6 <3 5000	±1000 0.15 0-3000 7000 ±1 0.5 <3 5000		© 10Vdc excitation ±5% Typical
ELECTRICALZero Acceleration Output (mV) $<\pm40$ Excitation (Vdc)2 to 10Input Resistance ( $\Omega$ )2400-6Output Resistance ( $\Omega$ )2400-6Insulation Resistance (M $\Omega$ )>100Ground IsolationIsolate			ırface.				@50Vdc
ENVIRONMENTAL Thermal Zero Shift (%FSO/° Thermal Sensitivity Shift (%/ Operating Temperature (°C) Humidity	°Ć) ±0.2 -20 to +8						
<b>PHYSICAL</b> Case Material Cable Weight (grams) Mounting	Aluminum NG Conductors, PFA Insulated, Braided Shield, PU Jacket					Cable Not Included	
<sup>1</sup> Output is ratiometric to excita	tion voltage						
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to $\pm 5\%$ Frequency Limit					
Optional accessories: 101 140		Three Channel DC Signal Conditioner Amplifier Auto-zero Inline Amplifier				北京汇润科贸有限公司 电话: +86 010 5601 8989 +86 010 5601 7979 传真: +86 010 5885 7266	

邮箱:<u>sales@aq315.com</u>

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### ordering info

#### PART NUMBERING

Model Number+Range+Cable Length+Options

1201-GGGG-ZZZ-XXX



Optional	Dash Numbers
-001	5Vdc Calibration
-002	2Vdc Calibration
-005	Lemo FGG.1B.307 and Dallas DS2401 Installed

Example: 1201-1000-360

Standard Configuration: 1000g, 360" (30ft) cable, No Options