

[8.9] [12.2] [16.0]

Model 1201F 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 adhesive mounting, see the model 1201.

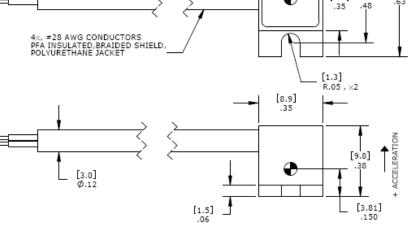


dimensions

[4.45] .175

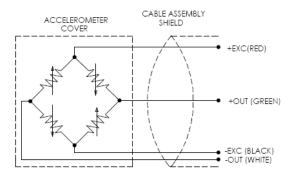


- Advanced MEMS Sensing Element
- ±50g to ±1000 g Dynamic Range
- 2-10 Vdc Excitation
- 0-50 °C Temperature Range
- ±40 mV Zero Measurand Output
- Gas Damping
- Connector Options
- Mechanical Overload Stops



APPLICATIONS

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





Model 1201F 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) ¹ 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
ELECTRICAL Zero Acceleration Output (mV Excitation (Vdc) Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (M Ω) Ground Isolation	2 to 10 2400-6000 2400-600 >100	2 to 10 2400-6000 2400-6000				
ENVIRONMENTALThermal Zero Shift (%FSO/°C)±0.05Thermal Sensitivity Shift (%/°C)±0.2Operating Temperature (°C)-20 to +85HumidityEpoxy Sealed, IP65				+ 86 010 5601 7979 传真:+ 86 010 5885 7266 邮箱: <u>sales@aq315.com</u>		From 0 to +50°C From 0 to +50°C
PHYSICAL Case Material Cable Weight (grams) Mounting	4x #28 AV <2.5	Anodized Aluminum 4x #28 AWG Conductors, PFA Insulated, Braided Shield, PU Jacket <2.5 2x #2-56 socket head cap screws				
OPTION Model 1201FL-GGGG-CCC With transverse sensing direction (parallel to mounting surface) ¹ Output is ratiometric to excitation voltage						
Calibration supplied:	CS-FREQ-0100 NIST Traceable Amp			alibration from	20Hz to ±5% Frequency Li	mit
	101 140	Three Channel DC Signal Conditioner Amplifier Auto-zero Inline Amplifier				

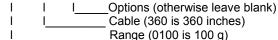
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ordering info

PART NUMBERING

Model Number+Range+Cable Length+Options

1201F-GGGG-ZZZ-XXX



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

Example: 1201F-1000-360

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