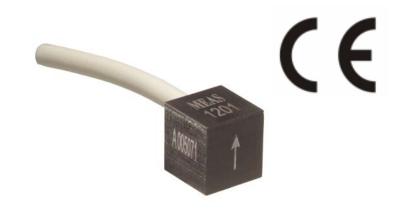


DC Response Durable Cable Reliable Performance Low Cost



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

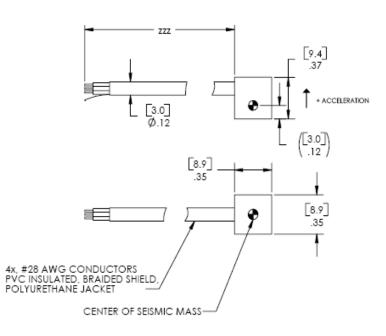
FEATURES

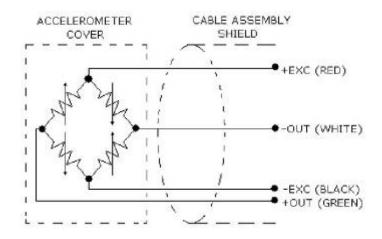
- 2nd GEN MEMS Sensing Element
- 1000 g Full Scale Range
- 2-10 VDC Excitation for Maximum Flexibility
- 0-50 °C Temperature Range
- ±40 mV Zero Measurand Output
- Gas Damping
- Connector Options
- Mechanical Overload Stops
- Designed for Screw Mounting

APPLICATIONS

- Crash Testing
- Impact Testing
- Off-Road Testing
- Road Testing

dimensions





Model 1201 Accelerometer



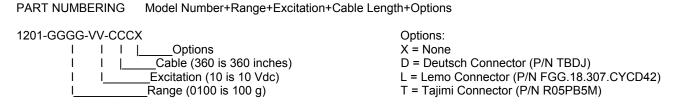
performance specifications

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						Notes
Range(g)	±50	±100	±200	±500	±1000	Notes
Sensitivity (mV/g)	2	.9	.9	.4	.15	
Frequency Response (Hz)	0-800	0-1500	0-1800	0-2700	0-3000	± 1 dB
Resonant Frequency (Hz)	2000 ±1	3000 ±1	4000 ±1	6000 ±1	7000 ±1	
Non-Linearity (% of reading) Transverse Sensitivity (%)	3 %	±1 3 %	±1 3 %	±1 3 %	±1 3 %	
Thermal Zero Shift (%FSO/°C)	±0.05	±0.05	±0.05	±0.05	±0.05	From 0 to +50°C
Thermal Sensitivity Shift (%/°Ć)	±0.2	±0.2	±0.2	±0.2	±0.2	From 0 to +50°C
ELECTRICAL						
Zero Acceleration Output (mV)	<±40	<±40	<±40	<±40	<±40	
Excitation (Vdc)	2 to 10	2 to 10	2 to 10	2 to 10	2 to 10	
Input Resistance	3500-4800	3500-4800	3500-	3500-	3500-	Measured between +EXC and -EXC
			4800	4800	4800	Managed that are a CUT and CUT
Output Resistance (Ω)	2700-4800	2700-4800	2700- 4800	2700- 4800	2700- 4800	Measured between +OUT and -OUT
Insulation Resistance (MΩ)	>100	>100	>100	>100	>100	@50Vdc
Ground Isolation		lounting Surface	@00140			
Humidity	Epoxy Sealed					
ENVIRONMENTAL						
Shock Limit (g)	3000	3000	4000	5000	5000	
Operating Temperature (°C)		-20 to	+85			
PHYSICAL						
Case Material Anodized Aluminum						
Cable (Integral 30 Foot Cable)	4 x 28 AWG Conductors					
Cable Jacket	0.5	0.5	0.5	0.5	0.5	Polyurethane
Weight (grams) Mounting	2.5	2.5 Adhesive / S	2.5 crew Moun	2.5	2.5	Cable Not Included
Milesive / Sciew Mount						

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ordering info



Example: 1201-1000-10-360X

Standard Configuration: 1000g, 10V Excitiation, 360" (30ft) cable, No Options