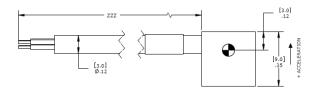
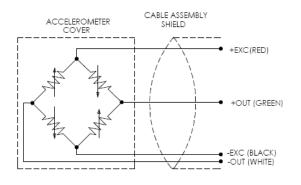




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CENTER OF SEISMIC MASS





MODEL 1201 ACCELEROMETER

SPECIFICATIONS

- 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 ± 1000 g 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.

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

PERFORMANCE SPECIFICATIONS

All values are typical at ± 24 °C, 80 Hz and 10 Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters	-0050	-0100	-0200	-0500	-1000	
DYNAMIC						Notes
Range(g)	±50	±100	±200	±500	±1000	
Sensitivity (mV/g) 1	2.0	0.9	0.9	0.40	0.15	@ 10Vdc excitation
Frequency Response (Hz)	0-800	0-1000	0-1400	0-2000	0-3000	±5%
Natural Frequency (Hz)	2000	3000	4000	6000	7000	
Non-Linearity (% FS)	±1	±1	±1	±1	±1	
Damping Ratio	0.7	0.5	0.5	0.3	0.1	Typical
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	
Shock Limit (g)	3000	3000	4000	5000	5000	

ELECTRICAL

Zero Acceleration Output (mV) $<\pm40$ Excitation (Vdc) 2 to 10Input Resistance (Ω) 2400-6000Output Resistance (Ω) 2400-6000Insulation Resistance (M Ω) >100

Ground Isolation Isolated from mounting surface.

ENVIRONMENTAL

Thermal Zero Shift (%FSO/°C) ± 0.05 From 0 to ± 50 °C Thermal Sensitivity Shift (%/°C) ± 0.2 From 0 to ± 50 °C Operating Temperature (°C) ± 0.2 From 0 to ± 50 °C

Humidity Epoxy Sealed, IP65

PHYSICAL

Case Material Anodized Aluminum

Cable 4x #28 AWG Conductors, PFA Insulated, Braided Shield, PU Jacket

Weight (grams) <2.5 Cable Not Included

Mounting Adhesive

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±5% Frequency Limit

Optional accessories: 121 Three Channel DC Differential Amplifier

140A Auto-zero Inline Amplifier

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@50Vdc

¹ Output is ratiometric to excitation voltage

ORDERING INFORMATION

PART NUMBERING Model Number+Range+Cable Length+Options

1201-G0	GGG	i-ZZZ-)	XXX	
	1	- 1	I	Options (otherwise leave blank)
	1	I		Cable (360 is 360 inches)
	I			Range (0100 is 100 g)
Installed				-

Optional Dash Numbers
-001 5Vdc Calibration
-002 2Vdc Calibration

-005 Lemo FGG.1B.307 and Dallas DS2401

Example: 1201-1000-360

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

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company 1000 Lucas Way Hampton, VA 23666 Sales and Customer Service Tel: +1-800-745-8008 or +1-757-766-1500 Fax: +1-757-766-4297 t&m@meas-spec.com

EUROPE

MEAS France SAS a TE Connectivity Company 26 Rue des Dames F78340 Les Clayes-sous-Bois France Sales and Customer Service Tel: +33 (0) 1 79 33 00 Fax: +33(0)1 34 81 03 59 t&m@meas-spec.com

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company No. 26 Langshan Road Shenzhen High-Tech Park (North) Nanshan District, Shenzhen 518057 China Sales and Customer Service Tel: +86 755 3330 5088 Fax: +86 755 3330 5099 t&m@meas-spec.com

TE.com/sensorsolutions

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