SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MA}Lpszss20%1%3; com s Model 1201 Accelerometer

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.

CE

dimensions





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

performance specifications

All values are typical at $\pm 24^{\circ}$ 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 Range(g) Sensitivity (mV/g) Frequency Response (Hz) Resonant Frequency (Hz) Non-Linearity (% of reading) Transverse Sensitivity (%) Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C)	±50 2 0-800 2000 ±1 3 % ±0.05 ±0.2	±100 .9 0-1500 3000 ±1 3 % ±0.05 ±0.2	±200 .9 0-1800 4000 ±1 3 % ±0.05 ±0.2	±500 .4 0-2700 6000 ±1 3 % ±0.05 ±0.2	±1000 .15 0-3000 7000 ±1 3 % ±0.05 ±0.2	Notes ± 1 dB From 0 to +50°C From 0 to +50°C
ELECTRICAL Zero Acceleration Output (mV) Excitation (Vdc) Input Resistance Output Resistance (Ω) Insulation Resistance (MΩ) Ground Isolation Humidity	<±40 2 to 10 3500-4800 2700-4800 >100 Isolated from N Epoxy Sealed	<±40 2 to 10 3500-4800 2700-4800 >100 /ounting Surface	<±40 2 to 10 3500- 4800 2700- 4800 >100	<±40 2 to 10 3500- 4800 2700- 4800 >100	<±40 2 to 10 3500- 4800 2700- 4800 >100	Measured between +EXC and –EXC Measured between +OUT and -OUT @50Vdc
ENVIRONMENTAL Shock Limit (g) Operating Temperature (°C)	3000	3000 -20 to	4000 0 +85	5000	5000	
PHYSICAL Case Material Cable (Integral 30 Foot Cable) Cable Jacket Weight (grams) Mounting	2.5	Anodized 2.5 Adhesive / S	2.5	2.5 t	2.5	4 x 28 AWG Conductors Polyurethane Cable Not Included

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

ordering info

PART NUMBERING

Model Number+Range+Excitation+Cable Length+Options

1201-GGGG-VV-CCCX



Options:

- X = None
- D = Deutsch Connector (P/N TBDJ)
- L = Lemo Connector (P/N FGG.18.307.CYCD42)
- T = Tajimi Connector (P/N R05PB5M)

Example: 1201-1000-10-360X

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