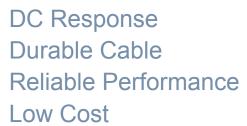
Model 1203 Accelerometer



The Model 1203 Accelerometer

is a small, compact triaxial 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 reach places on vehicles under test.

FEATURES

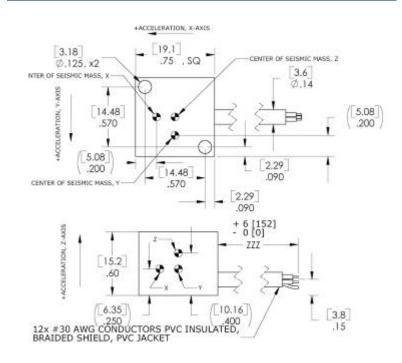
- 2nd Generation MEMS Sensing Element
- 1000 g Full Scale Range
- 2-10 VDC Excitation
- 0-50 °C Temperature Range
- ±40 mV Zero Measurand Output
- **Gas Damping**
- Mechanical Overload Stops
- **Designed for Screw Mounting**

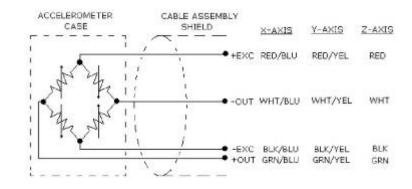
APPLICATIONS

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



dimensions





Model 1203 Rev 2 www.meas-spec.com 04/11/2009

Model 1203 Accelerometer

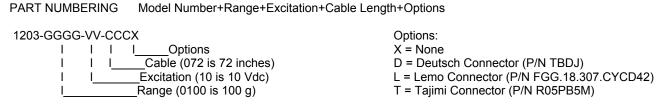
performance specifications

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 Range(g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (% of reading) Transverse Sensitivity (%) Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C)	±50 2 0-600 2000 ±1 3% ±0.05 ±0.2	±100 .9 0-800 3000 ±1 3% ±0.05 ±0.2	±200 .9 0-1000 4000 ±1 3% ±0.05 ±0.2	±500 .4 0-1200 6000 ±1 3% ±0.05 ±0.2	±1000 .15 0-1500 7000 ±1 3% ±0.05 ±0.2	Notes ± 10% From 0 to +50°C From 0 to +50°C
ELECTRICAL Zero Acceleration Output (mV) Excitation (Vdc) Input Resistance Output Resistance (Ω) Insulation Resistance ($M\Omega$) Ground Isolation	<±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	<±40 2 to 10 3500- 4800 2700- 4800 >100	<±40 2 to 10 3500- 4800 2700- 4800 >100	@50Vdc Isolated from Mounting Surface
ENVIRONMENTAL Shock Limit (g) Operating Temperature (C) Humidity	3000		4000 to +85 y Sealed	5000	5000	
PHYSICAL Case Material Cable (Integral 6 Ft.) Cable (PVC Jacket) Weight (grams) Mounting	Aluminum 20 Screw					12x30 AWG Braided Shield Cable Not Included Torque 8 lb-in

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



Example: 1203-1000-10-072X

Standard Configuration: 1000g, 10V Excitation, 72" (6 ft) cable, No Options

Model 1203 Rev 2 www.meas-spec.com 04/11/2009 SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL:szss20@163.com