Model 201 Accelerometer SZJOINT Joint Sensor Instruments (H.K.) Ltd. Joint Sensor Instruments (Shenzhen) Ltd.

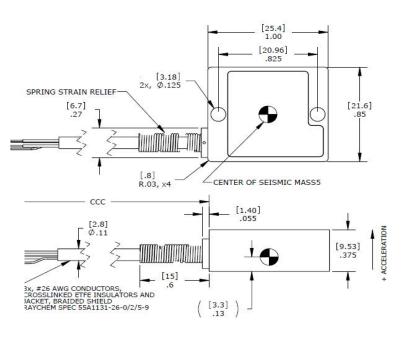


MEMS Accelerometer Temperature Calibrated Signal Conditioned Output Low Cost, Low Noise

**The Model 201** is a low noise accelerometer offering both static and dynamic response. The accelerometer is packaged in an anodized aluminum housing with an integral cable. It is offered in ranges from  $\pm 2g$  to  $\pm 50g$ . Featuring gas damped MEMS sensing elements, the model 201 provides a flat frequency response over an operating temperature range of -40°C to +125°C.

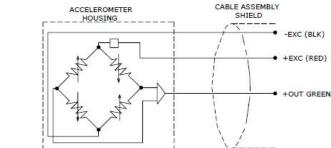


201-005



## FEATURES

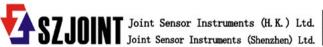
- Low Noise
- Low Current Consumption
- Ranges: ±2g to ±50g
- High Over-Range Protection
- Temperature Compensation
- 2 Pole Electronic Filtering



## **APPLICATIONS**

- Motorsports
- Vibration & Shock Monitoring
- Road Vehicle Testing
- Low Frequency Applications
- Seismic

Add: B401, No. 8 Lane 1 Anhua Industrial Park, Section 35 Bao'an District Shenzhen ,Guangdong ,China. ZIP: 518133 Tel: +86-755-83104666/83105666 Fax: +86-755-83116697 Web: www.szjoint.com Email: trade@szjoint.com **Model 201 Accelerometer** 





## performance specifications

All values are typical at +24°C and 12Vdc 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) -3dB Cutoff Frequency (Hz) Rolloff Above Cutoff Frequer Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	ncy (dB/dec)	±2 1000 100 ±15 -40 700	±5 400 100 ±15 -40 800	±10 200 100 ±15 -40 1000	±20 100 100 ±15 -40 1500 ±1.0 <3 0.7 5000	±30 67 100 ±15 -40 1500	±50 40 100 ±15 -40 4000	Notes <2 Typical
<b>ELECTRICAL</b> Zero Acceleration Output (V) Excitation Voltage (Vdc) Excitation Current (mA) Full Scale Output Voltage Sw Output Resistance (Ω) Insulation Resistance (MΩ) Residual Noise (μV RMS) Ground Isolation		80	50	50 Isolated fr	2.5 ±0.1 5 to 30 <5 0.5 to 4.5 <100 >100 60 pm Mounting 5	50 Surface	60	@100Vdc 0.1 to 100 Hz
<b>ENVIRONMENTAL</b> Thermal Zero Shift (%FSO/° Thermal Sensitivity Shift (%/ Operating Temperature (°C) Compensated Temperature Storage Temperature (°C)	°Ć)				±0.012 ±0.020 -40 to 125 0 to 85 -40 to 125			Typical Typical
PHYSICALCase MaterialAnodized AluminumCableTeflon Insulated Leads, Braided Shield, Raychem JacketWeight (grams)14Mounting2x #4-40 or M3 Socket Head ScrewMounting Torque6 lb-in (0.7 N-m)Cable AWG3 x #26								
Wiring color code:	<b>ng color code:</b> +Excitation = Red; -Excitation = Blk; +Output = Grn							
Supplied accessories:	AC-D02286 (#4 WASHER) AC-D02995 (SCREW 4-40 7/8" SOCKET HD)							
Optional accessories:	101 Three Channel DC Signal Conditioner Amplifier							

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## ordering info

PART NUMBERING

Model Number+Range+Cable Length

201-XX-CCC

Cable (060 is 60 inches) Range (05 =  $\pm$ 5g range, X axis)

Example: 201-05-060 Model 201, ±5g, 60" (5ft) Cable

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