

Model 4203 Accelerometer

performance specifications

All values are typical at +24°C, 100Hz 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

	±6	±7.5	±10	±20	±30	±50	Notes
Range (g)	±6	±7.5	±10	±20	±30	±50	
Sensitivity (mV/g)	333	267	200	100	67	40	±10%
-3dB Cutoff Frequency (Hz)	100 ±15	100 ±15	100 ±15	100 ±15	100 ±15	100 ±15	See alternate options below
Rolloff Above Cutoff Frequency (dB/dec)	-160	-160	-160	-160	-160	-160	
Non-Linearity (%FSO)	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<3	<1.5% Option
Damping Ratio	0.7	0.7	0.7	0.7	0.7	0.7	
Shock Limit (g)	5000	5000	5000	5000	5000	5000	
Resolution (mg RMS)	0.5	0.5	0.5	1.0	1.0	3.0	Passband

ELECTRICAL

Zero Acceleration Output (V)	2.50 ±0.10						Single-ended
Excitation Voltage (Vdc)	8 to 16						
Excitation Current (mA)	<30						
Full Scale Output Voltage Swing (Vdc)	0.5 to 4.5						
Output Resistance (Ω)	<100						
Insulation Resistance (MΩ)	>100						@100Vdc
Turn On Time (msec)	<100						
Ground Isolation	Isolated from Mounting Surface						

ENVIRONMENTAL

Thermal Zero Shift (%FSO/°C)	±0.012
Thermal Sensitivity Shift (%/°C)	±0.020
Operating Temperature (°C)	-40 to +85
Storage Temperature (°C)	-40 to +85
Humidity	Epoxy Encapsulated, IP65

PHYSICAL

Case Material	Anodized Aluminum
Cable	5x #24 AWG Conductors, ETFE Insulated, Braided Shield, Crosslinked ETFE Jacket
Weight (grams)	60 (cable not included)
Mounting	4x #4 or M3 Screws
Mounting Torque	6 lb-in (0.7 N-m)

Calibration supplied: CS-LFREQ-0010 NIST Traceable Amplitude Calibration from 1Hz to 100Hz

Optional accessories: 101 Three Channel DC Signal Conditioner Amplifier

ordering info

PART NUMBERING Model Number+Range+Filter Option

4203-XX-YY-ZZ-WW

| | |
| | | Filter Option (A1 Standard)
| | | Range (06-06-10 is ±6g-X, ±6g-Y, ±10g-Z)

Example: 4203-06-06-10-A1

Model 4203, 6g X-axis, 6g Y-axis, 10g Z-axis, 60Hz Low-pass Filter

Dash Number	Filter Cutoff Frequency
-A1	60 Hz
-A2	40 Hz
-A4	47 Hz
-A5	80 Hz
-A6	50 Hz
-A7	100 Hz

联系方式



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