



# Model 4203 Accelerometer



## performance specifications

All values are typical at  $\pm 24^{\circ}\text{C}$ , 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	-06	-08	-10	-20	-30	Notes
<b>DYNAMIC</b>						Dash Number
Range(g)	$\pm 6$	$\pm 7.5$	$\pm 10$	$\pm 20$	$\pm 30$	
Sensitivity (mV/g)	333	267	200	100	67	$\pm 5\%$
Standard Frequency Response (Hz)	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	Or custom order
Customizable LP Corner Freq. (Hz)	5 to 100	5 to 100	5 to 100	5 to 100	5 to 100	-3dB, -160dB/decade
Shock Limit (g)	5000	5000	5000	5000	5000	
Non-Linearity (% FSO)	$\pm 1$	$\pm 1$	$\pm 1$	$\pm 1$	$\pm 1$	
Transverse Sensitivity (%)	$<3/<1.5$	$<3/<1.5$	$<3/<1.5$	$<3/<1.5$	$<3/<1.5$	Standard/Optional
Zero Acceleration Output (mV)	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$	From 2.5Vdc bias
Thermal Zero Shift (%FSO/50°C)	$\pm 2.5/\pm 1.5$	$\pm 2.5/\pm 1.5$	$\pm 2.5/\pm 1.5$	$\pm 2.5/\pm 1.5$	$\pm 2.5/\pm 1.5$	Standard/Optional
Thermal Sensitivity Shift (%/50°C)	$\pm 2.5/\pm 1.5$	$\pm 2.5/\pm 1.5$	$\pm 2.5/\pm 1.5$	$\pm 2.5/\pm 1.5$	$\pm 2.5/\pm 1.5$	Standard/Optional
<b>ELECTRICAL</b>						
Excitation (Vdc)	8 to 16	8 to 16	8 to 16	8 to 16	8 to 16	
Current (mA)	$<5$	$<5$	$<5$	$<5$	$<5$	
Output Impedance ( $\Omega$ )	$<100$	$<100$	$<100$	$<100$	$<100$	
Insulation Resistance (M $\Omega$ )	$>100$	$>100$	$>100$	$>100$	$>100$	@50Vdc
<b>PHYSICAL</b>						
Case Material	Al Alloy	Al Alloy	Al Alloy	Al Alloy	Al Alloy	Anodized
Cable (Teflon Jacket, 5 wire+shield)	24 AWG	24 AWG	24 AWG	24 AWG	24 AWG	Teflon insulated
Weight (grams)	$<60$	$<60$	$<60$	$<60$	$<60$	Without cable
Mounting			M3 Screws			4X
<b>ENVIRONMENTAL</b>						
Operating Temperature ( $^{\circ}\text{C}$ )			-40 to +85			
Sealing						Potted Construction

### PART NUMBERING

4203-XX-YY-ZZ-WW where XX, YY, ZZ represent the g ranges for each of the 3 axes, WW is optional frequency cutoff.

**Wiring color code:** +Input = Red; -Input/+Output = Black; +Output X = Green; +Output Y = Blue; +Output Z = White

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