

Model 1203 Accelerometer

performance specifications

All values are typical at $\pm 24^{\circ}\text{C}$, 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						Notes
DYNAMIC						
Range(g)	± 50	± 100	± 200	± 500	± 1000	
Sensitivity (mV/g)	2	.9	.9	.4	.15	
Frequency Response (Hz)	0-600	0-800	0-1000	0-1200	0-1500	$\pm 10\%$
Natural Frequency (Hz)	2000	3000	4000	6000	7000	
Non-Linearity (% of reading)	± 1	± 1	± 1	± 1	± 1	
Transverse Sensitivity (%)	3%	3%	3%	3%	3%	
Thermal Zero Shift (%FSO/ $^{\circ}\text{C}$)	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	From 0 to $+50^{\circ}\text{C}$
Thermal Sensitivity Shift (%/ $^{\circ}\text{C}$)	± 0.2	± 0.2	± 0.2	± 0.2	± 0.2	From 0 to $+50^{\circ}\text{C}$
ELECTRICAL						
Zero Acceleration Output (mV)	$<\pm 40$	$<\pm 40$	$<\pm 40$	$<\pm 40$	$<\pm 40$	
Excitation (Vdc)	2 to 10	2 to 10	2 to 10	2 to 10	2 to 10	
Input Resistance	3500-4800	3500-4800	3500-4800	3500-4800	3500-4800	
Output Resistance (Ω)	2700-4800	2700-4800	2700-4800	2700-4800	2700-4800	
Insulation Resistance ($M\Omega$)	>100	>100	>100	>100	>100	@50Vdc Isolated from Mounting Surface
Ground Isolation						
ENVIRONMENTAL						
Shock Limit (g)	3000	3000	4000	5000	5000	
Operating Temperature (C)			-20 to +85			
Humidity			Epoxy Sealed			
PHYSICAL						
Case Material			Aluminum			
Cable (Integral 6 Ft.)						12x30 AWG
Cable (PVC Jacket)						Braided Shield
Weight (grams)			20			Cable Not Included
Mounting			Screw			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

PART NUMBERING Model Number+Range+Excitation+Cable Length+Options

1203-GGGG-VV-CCCX

| | | | Options
 | | | Cable (072 is 72 inches)
 | | Excitation (10 is 10 Vdc)
 | Range (0100 is 100 g)

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: 1203-1000-10-072X

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