



Model Number 3741E12200G	DC RESPONSE ACCELEROMETER			Revision: B ECN #: 44052
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 3 %)	20 mV/g	2.04 mV/(m/s ²)	[6]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 200 g pk	± 1962 m/s ² pk		
Frequency Range(± 3 dB)	0 to 1500 Hz	0 to 1500 Hz	[7]	
Frequency Range(± 3 dB)	0 to 3000 Hz	0 to 3000 Hz	[2]	
Phase Response(100 Hz)	<10 °	<10 °		
Broadband Resolution(0.5 to 100 Hz)	5.6 mg rms	.055 m/s ² rms	[2]	
Non-Linearity	≤ 1 %	≤ 1 %	[8]	
Transverse Sensitivity	≤ 5 %	≤ 5 %		
Environmental				
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk		
Temperature Range(Operating)	-65 to 250 °F	-54.0 to 121 °C		
Temperature Range(Storage)	-65 to 250 °F	-54.0 to 121 °C		
Temperature Coefficient of Sensitivity	± 3.0 %	± 3.0 %	[4]	
Zero g Offset Temperature Coefficient	± 2.0 % FSO	± 2.0 % FSO	[5][4]	
Base Strain Sensitivity(Measured at 250 µε)	.0035 g/µε	.035 (m/s ²)/µε	[2]	
Electrical				
Excitation Voltage	6 to 30 VDC	6 to 30 VDC		
Current Consumption	≤ 10 mA	≤ 10 mA		
Output Impedance	≤ 120 Ohm	≤ 120 Ohm		
Offset Voltage(0 g)	± 160 mVDC	± 160 mVDC	[1]	
Common Mode Voltage(± 0.1 VDC)	+2.5 VDC	+2.5 VDC		
Spectral Noise(1 to 100 Hz)	800 µg/√Hz	7848 (µm/sec ²)/√Hz	[2]	
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	[3]	
Physical				
Housing Material	Anodized Aluminum	Anodized Aluminum		
Sealing	Epoxy	Epoxy		
Size (Height x Length x Width)	0.30 in x 1.00 in x .85 in	7.5 mm x 25.4 mm x 21.6 mm		
Weight(without cable)	0.35 oz	9.92 gm	[2]	
Electrical Connector	Integral Cable	Integral Cable		
Electrical Connection Position	Side	Side		
Cable Termination	Pigtail Ends	Pigtail Ends		
Cable Type	010 4-cond Shielded	010 4-cond Shielded		
Cable Length	10 ft	10 ft		
Mounting	Through Holes (2)	Through Holes (2)		
				NOTES:
				[1]Offset tolerance is based on manufacturers supplied cable length.
				[2]Typical.
				[3]Case and shield to mounting surface or cable leads.
				[4]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
				[5]FSO = Full Scale Output over the Measurement Range (8VDC).
				[6]Measured at 100 Hz, 1 grms.
				[7]Minimum, verified with Calibration data.
				[8]Least-squares, straight line method, % FSO.
				[9]See PCB Declaration of Conformance PS027 for details.
				SUPPLIED ACCESSORIES:
				Model 081A103 Mounting screw (2)
				Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1)
				Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)
				OPTIONAL ACCESSORIES:
				Model 080A208 Triaxial mounting block
Entered: AP	Engineer: JJD	Sales: RM	Approved: NJF	Spec Number:
Date: 4/9/2015	Date: 4/9/2015	Date: 4/9/2015	Date: 4/9/2015	60431
				
<i>All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.</i>			Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com	
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