



Model Number 3741E12200G		DC RESPONSE ACCELEROMETER		Revision: B ECN #: 44052	
Performance		ENGLISH	SI		
Sensitivity(± 3 %)	20 mV/g	2.04 mV/(m/s ²)	[6]	OPTIONAL VERSIONS 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	
Date: 4/9/2015		Date: 4/9/2015		Date: 4/9/2015	
				Approved: NJF	
				Spec Number:	
				60431	
 <p>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.</p>		 <p>3425 Walden Avenue, Depew, NY 14043</p>		Phone: 716-684-0001	
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