

Model Number 3741E1210G	DC RESPONSE ACCELEROMETER				Revision: C ECN #: 46334
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 3 %)	400 mV/g	40.8 mV/(m/s²)	[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	± 10 g pk	± 98.1 m/s² pk			
Frequency Range(± 3 dB)	0 to 500 Hz	0 to 500 Hz	[7]		
Frequency Range(± 3 dB)	0 to 1000 Hz	0 to 1000 Hz	[2]		
Phase Response(100 Hz)	<15 °	<15 °			
Broadband Resolution(0.5 to 100 Hz)	0.4 mg rms	0.004 m/s² rms	[2]		
Non-Linearity	≤ 1 %	≤ 1 %	[8]		
Transverse Sensitivity	≤ 5 %	≤ 5 %			
Environmental				NOTES:	
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s² pk		[1] Offset tolerance is based on manufacturers supplied cable length.	
Temperature Range(Operating)	-65 to 250 °F	-54 to 121 °C		[2] Typical.	
Temperature Range(Storage)	-65 to 250 °F	-54 to 121 °C		[3] Case and shield to mounting surface or cable leads.	
Temperature Coefficient of Sensitivity	± 3.0 %	± 3.0 %	[4]	[4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)	
Zero g Offset Temperature Coefficient	± 2.0 % FSO	± 2.0 % FSO	[5][4]	[5] FSO = Full Scale Output over the Measurement Range (8VDC).	
Base Strain Sensitivity(Measured at 250 µε)	.001 g/µε	.01 (m/s²)/µε	[2]	[6] Measured at 100 Hz, 1 grms.	
Electrical				[7] Minimum, verified with Calibration data.	
Excitation Voltage	6 to 30 VDC	6 to 30 VDC		[8] Least-squares, straight line method, % FSO.	
Current Consumption	≤ 10 mA	≤ 10 mA		[9] See PCB Declaration of Conformance PS025 for details.	
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)	50 µg/√Hz	491 (µm/sec²)/√Hz	[2]		
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	[3]		
Physical				SUPPLIED ACCESSORIES:	
Housing Material	Anodized Aluminum	Anodized Aluminum		Model 081A103 Mounting screw (2)	
Sealing	Epoxy	Epoxy		Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1)	
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		Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)	
Weight(without cable)	0.35 oz	9.92 gm	[2]		
Electrical Connector	Integral Cable	Integral Cable			
Electrical Connection Position	Side	Side		OPTIONAL ACCESSORIES:	
Cable Termination	Pigtail Ends	Pigtail Ends		Model 080A208 Triaxial mounting block	
Cable Type	010 4-cond Shielded	010 4-cond Shielded			
Cable Length	10 ft	10 ft			
Mounting	Through Holes (2)	Through Holes (2)			
CE [9] 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.					
Entered: LK		Engineer: JJD	Sales: WDC	Approved: NJF	Spec Number:
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