



Model Number 3741E12100G	DC RESPONSE ACCELEROMETER			Revision: B ECN #: 44052
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 3 %)	40 mV/g	4.08 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	± 100 g pk	± 981 m/s ² pk		
Frequency Range(± 3 dB)	0 to 1250 Hz	0 to 1250 Hz	[7]	
Frequency Range(± 3 dB)	0 to 2500 Hz	0 to 2500 Hz	[2]	
Phase Response(100 Hz)	<10 °	<10 °		
Broadband Resolution(0.5 to 100 Hz)	2.8 mg rms	0.027 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)	.0017 g/µε	.017 (m/s ²)/µε	[2]	
Electrical				NOTES:
Excitation Voltage	6 to 30 VDC	6 to 30 VDC		[1]Offset tolerance is based on manufacturers supplied cable length.
Current Consumption	≤ 10 mA	≤ 10 mA		[2]Typical.
Output Impedance	≤ 120 Ohm	≤ 120 Ohm		[3]Case and shield to mounting surface or cable leads.
Offset Voltage(0 g)	± 160 mVDC	± 160 mVDC	[1]	[4]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
Common Mode Voltage(± 0.1 VDC)	+2.5 VDC	+2.5 VDC		[5]FSO = Full Scale Output over the Measurement Range (8VDC).
Spectral Noise(1 to 100 Hz)	400 µg/√Hz	3924 (µm/sec ²)/√Hz	[2]	[6]Measured at 100 Hz, 1 grms.
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	[3]	[7]Minimum, verified with Calibration data.
Physical				[8]Least-squares, straight line method, % FSO.
Housing Material	Anodized Aluminum	Anodized Aluminum		[9]See PCB Declaration of Conformance PS027 for details.
Sealing	Epoxy	Epoxy		SUPPLIED ACCESSORIES:
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 081A103 Mounting screw (2)
Weight(without cable)	0.35 oz	9.92 gm	[2]	Model ACS-145 Phase and Amplitude Calibration from 2 Hz to ±3 dB of frequency range (1)
Electrical Connector	Integral Cable	Integral Cable		Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)
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)		
				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 60430
 <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>Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p> <p>3425 Walden Avenue, Depew, NY 14043</p>