



Model Number 3713E1150G	TRIAxIAL DC RESPONSE ACCELEROMETER			Revision: C ECN #: 44033
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 3 %)	40 mV/g	4.1 mV/(m/s ²)	[5]	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	± 50 g pk	± 490.5 m/s ² pk		
Frequency Range(± 3 dB)	0 to 2000 Hz	0 to 2000 Hz	[2]	
Frequency Range(± 3 dB)	0 to 1000 Hz	0 to 1000 Hz	[6]	
Phase Response(100 Hz)	<10 °	<10 °		
Broadband Resolution(0.5 to 100 Hz)	1.0 mg rms	0.010 m/s ² rms	[2]	
Non-Linearity	≤ 1 %	≤ 1 %	[7]	
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 %	± 3 %	[3]	
Zero g Offset Temperature Coefficient	± 2 % FSO	± 2 % FSO	[3][4]	
Base Strain Sensitivity(Measured at 250 µε)	.001 g/µε	.01 (m/s ²)/µε	[2]	
Magnetic Sensitivity	100 µg/gauss	9.8 (m/s ²)/Tesla	[2]	
Electrical				
Excitation Voltage	6 to 30 VDC	6 to 30 VDC		
Current Consumption	≤ 30 mA	≤ 30 mA		
Output Impedance	≤ 120 Ohm	≤ 120 Ohm		
Offset Voltage(0 g)	± 80 mVDC	± 80 mVDC	[1]	
Spectral Noise(1 to 100 Hz)	200 µg/√Hz	1962 (µm/sec ²)/√Hz	[2]	
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm		
Physical				
Housing Material	Titanium	Titanium		
Sealing	Hermetic	Hermetic		
Size (Length x Width x Height)	0.85 in x 0.85 in x 0.85 in	21.6 mm x 21.6 mm x 21.6 mm		
Weight	0.8 oz	22.7 gm		
Electrical Connector	9-Pin	9-Pin		
Electrical Connection Position	Side	Side		
Mounting Thread	10-32 Female	10-32 Female		
 [8]				
<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>				
NOTES: [1]Offset tolerance is based on 10 ft of 037 test cable. [2]Typical. [3]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C) [4]FSO = Full Scale Output over the Measurement Range (4VDC). [5]Measured at 100 Hz. [6]Minimum, verified with Calibration data. [7]Least-squares, straight line method, % FSO. [8]See PCB Declaration of Conformance PS027 for details.				
SUPPLIED ACCESSORIES: Model 080A12 Adhesive Mounting Base (1) Model 081B05 Mounting Stud (10-32 to 10-32) (1) Model ACS-145T Triaxial Calibration Phase and Magnitude from 2 Hz to ±3dB using Linear scale (1) Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)				
Entered: AP	Engineer: JJD	Sales: RWM	Approved: NJF	Spec Number:
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