



Model Number 3743G12100G		TRIAXIAL DC RESPONSE ACCELEROMETER			Revision: NR ECN #: 55341	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 3 %)		27 mV/g	2.75 mV/(m/s ²)	[1]	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	± 980.7 m/s ² pk			
Frequency Range(± 5 %)		0 to 1,500 Hz	0 to 1,500 Hz			
Frequency Range(± 10 %)		0 to 2,500 Hz	0 to 2,500 Hz			
Resonant Frequency		8.5 kHz	8.5 kHz	[2]		
Phase Response(100 Hz)		< 10 °	< 10 °			
Non- Linearity(Typical)		0.3 %	0.3 %	[3]		
Non- Linearity(Max)		1 %	1 %	[3]		
Broadband Resolution(0.5 to 100 Hz)		3 mg rms	0.03 m/s ² rms	[2]		
Transverse Sensitivity(Typical)		1 %	1 %			
Transverse Sensitivity(Max)		3 %	3 %			
Environmental						
Overload Limit(Shock)		± 5,000 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		± 1 %	± 1 %	[4][2]		
Zero g Offset Temperature Coefficient		± 1 % FSO	± 1 % FSO	[4][5][2]		
Base Strain Sensitivity		.001 g/με	.01 (m/s ²)/με	[2]		
Magnetic Sensitivity		40 μg/gauss	3.9 (m/s ²)/Tesla	[2]		
Electrical						
Excitation Voltage		5 to 32 VDC	5 to 32 VDC			
Current Consumption		≤ 15 mA	≤ 15 mA			
Output Impedance		≤ 120 Ohm	≤ 120 Ohm			
Offset Voltage(0 g)		± 20 mVDC	± 20 mVDC	[6]		
Common Mode Voltage(+/- 0.1 VDC)		1.65 VDC	1.65 VDC			
Spectral Noise(1 Hz)		300 μg/√Hz	2,943 (μm/s ²)/√Hz	[2]		
Spectral Noise(10 Hz)		300 μg/√Hz	2,943 (μm/s ²)/√Hz	[2]		
Spectral Noise(100 Hz)		300 μg/√Hz	2,943 (μm/s ²)/√Hz	[2]		
Electrical Isolation(Case)		> 10 ⁸ Ohm	> 10 ⁸ Ohm			
Physical						
Housing Material		Stainless Steel	Stainless Steel			
Sealing		IP67	IP67			
Size (Length x Width x Height)		0.76 in x 1.03 in x .66 in	19.3 mm x 26.2 mm x 16.8 mm			
Weight		0.92 oz	26.1 gm/m	[2]		
Accelerometer, Excluding Cable		0.30 oz/ft	27.6 gm/m	[2]		
Electrical Connector		Integral Cable	Integral Cable			
Electrical Connection Position		Side	Side			
Cable Type		037 10-cond Shielded	037 10-cond Shielded			
Mounting Thread		Through Hole	Through Hole			
NOTES:						
[1]Measured at 100 Hz, 10 grms.						
[2]Typical.						
[3]Zero-based, least-squares, straight line method.						
[4]-65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)						
[5]FSO= Full Scale Output over the Measurement Range						
[6]Offset tolerance is based on 10ft of 528 test cable.						
[7]See PCB Declaration of Conformance PS027 for details.						
SUPPLIED ACCESSORIES:						
Model 081A135 Mounting screw and washer, 4-40 x 7/8" thread (2)						
Model ACS-172T Triaxial Phase and Amplitude Calibration from 5 Hz to +5% frequency range (1)						
Entered: ND		Engineer: JJD		Sales: JM		Approved: NJF
Date: 12/17/2024		Date: 12/17/2024		Date: 12/17/2024		Date: 12/17/2024
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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.

This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit <http://www.pcb.com>

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