

Model Number 3743G1210G		TRIAXIAL DC RESPONSE ACCELEROMETER		Revision: NR ECN #: 55341	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 3 %)		270 mV/g	27.5 mV/(m/s ²)	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/s ² pk		
Frequency Range(± 5 %)		0 to 1,000 Hz	0 to 1,000 Hz		
Frequency Range(± 10 %)		0 to 1,500 Hz	0 to 1,500 Hz		
Resonant Frequency		3.2 kHz	3.2 kHz		
Phase Response(100 Hz)		< 10 °	< 10 °		
Non- Linearity(Typical)		0.3 %	0.3 %		
Non- Linearity(Max)		1 %	1 %		
Broadband Resolution(0.5 to 100 Hz)		0.3 mg rms	0.003 m/s ² rms		
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)		30 μg/√Hz	294 (μm/s ²)/√Hz	[2]	
Spectral Noise(10 Hz)		30 μg/√Hz	294 (μm/s ²)/√Hz	[2]	
Spectral Noise(100 Hz)		30 μg/√Hz	294 (μm/s ²)/√Hz	[2]	
Electrical Isolation(Case)		> 10 ⁸ Ohm	> 10 ⁸ Ohm		
Physical					
Housing Material		Stainless Steel	Stainless Steel		
Sealing		Hermetic	Hermetic		
Size (Length x Width x Height)		0.76 in x 1.03 in x 0.66 in	19.3 mm x 26.2 mm x 16.8 mm		
Weight		0.92 oz	26.1 gm	[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, 1 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	
Date: 12/17/2024		Date: 12/17/2024		Date: 12/17/2024	