

Model Number

356A01

# TRIAxIAL ICP® ACCELEROMETER

Revision: G

ECN #: 42197

## Performance

	ENGLISH	SI	
Sensitivity(± 20 %)	5 mV/g	0.51 mV/(m/s <sup>2</sup> )	
Measurement Range	± 1000 g pk	± 9810 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)(y or z axis)	2 to 8000 Hz	2 to 8000 Hz	
Frequency Range(± 5 %)(x axis)	2 to 5000 Hz	2 to 5000 Hz	
Frequency Range(+1 dB)(x axis)	≥ 8 kHz	≥ 8 kHz	
Resonant Frequency	≥ 50 kHz	≥ 50 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

## Environmental

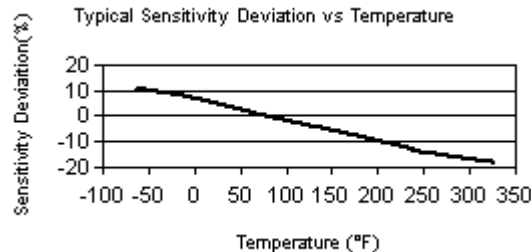
	ENGLISH	SI	
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	[2]
Temperature Response	See Graph	See Graph	[1][2]

## Electrical

	ENGLISH	SI	
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 Ohm	≤ 200 Ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.24 to 1.0 sec	0.24 to 1.0 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	1200 µg/√Hz	11,772 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	300 µg/√Hz	2943 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	100 µg/√Hz	981 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	30 µg/√Hz	294 (µm/sec <sup>2</sup> )/√Hz	[1]

## Physical

	ENGLISH	SI	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.25 in x 0.25 in x 0.25 in	6.35 mm x 6.35 mm x 6.35 mm	
Weight(without cable)	0.04 oz	1.0 gm	[1]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Length	5 ft	1.5 m	
Cable Type	034 4-cond Shielded	034 4-cond Shielded	
Mounting	Adhesive	Adhesive	



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.  
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## OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**HT** - High temperature, extends normal operation temperatures  
 Temperature Range(Operating) -65 to +325 °F -54 to +163 °C

**W** - Water Resistant Cable  
 Electrical Connector Sealed Integral Cable Sealed Integral Cable

## NOTES:

- [1] Typical.  
 [2] 250° F to 325° F data valid with HT option only.  
 [3] Zero-based, least-squares, straight line method.  
 [4] See PCB Declaration of Conformance PS023 for details.

## SUPPLIED ACCESSORIES:

- Model 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)  
 Model 080A109 Petro Wax (1)  
 Model 080A90 Quick Bonding Gel (1)  
 Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

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