

Model Number HT356B01	TRIAxIAL ICP® ACCELEROMETER	Revision: C ECN #: 46545
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	ENGLISH	SI	
Performance			
Sensitivity(± 20 %)	5 mV/g	0.51 mV/(m/s ²)	
Measurement Range	± 1000 g pk	± 9810 m/s ² 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 ² rms	[2]
Non-Linearity	≤ 1 %	≤ 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	
Temperature Range(Operating)	-65 to +356 °F	-54 to +180 °C	[3]
Temperature Response	See Graph	See Graph	[2]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 4 mA	2 to 4 mA	[1]
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 ²)/√Hz	[2]
Spectral Noise(10 Hz)	300 µg/√Hz	2943 (µm/sec ²)/√Hz	[2]
Spectral Noise(100 Hz)	100 µg/√Hz	981 (µm/sec ²)/√Hz	[2]
Spectral Noise(1 kHz)	30 µg/√Hz	294 (µm/sec ²)/√Hz	[2]
Physical			
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	[2]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Termination	1/4-28 4-Pin Jack	1/4-28 4-Pin Jack	[3]
Cable Length	5 ft	1.5 m	
Cable Type	034 4-cond Shielded	034 4-cond Shielded	
Mounting	Adhesive	Adhesive	

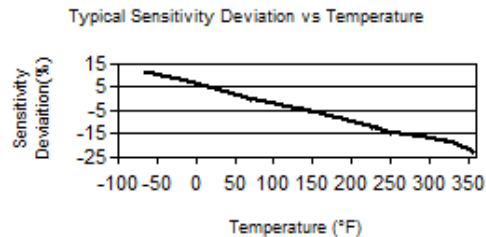
OPTIONAL VERSIONS
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

J - Ground Isolated
Electrical Isolation(Base) >10⁸ Ohm >10⁸ Ohm
Size - Height x Length x Width .28 in x .28 in x .28 in 7.10 mm x 7.10 mm x 7.10 mm

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

NOTES:
[1] Increased current up to 20mA acceptable to 250F (121C)
[2] Typical.
[3] Terminating connector limited to 325F (163C).
[4] Zero-based, least-squares, straight line method.
[5] 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)



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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	<p>Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</p>
3425 Walden Avenue, Depew, NY 14043	