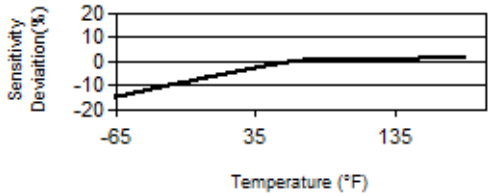
Model Number HV356A45	TRIAXIAL ICP® ACCELEROMETER	Revision: A ECN #: 56906

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s²)	
Measurement Range	± 50 g pk	± 490 m/s² pk	
Frequency Range(+/- 5 %)	0.7 to 5,000 Hz	0.7 to 5,000 Hz	
Frequency Range(+/- 10 %)	0.4 to 6,000 Hz	0.4 to 6,000 Hz	
Resonant Frequency	≥ 30 kHz	≥ 30 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0005 g rms	0.005 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
TEDS Compliant(Per IEEE 1451.4)	Yes	Yes	
Environmental			
Overload Limit(Shock)	± 5,000 g pk	± 49,050 m/s² pk	
Temperature Range(Operating)	-65 to 185 °F	-54 to 85 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	.001 g/με	.01 (m/s²)/με	[1]
Electrical			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 Ohm	≤ 200 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.8 to 2.4 sec	0.8 to 2.4 sec	
Settling Time(within 10% of bias)	≤ 5 sec	≤ 5 sec	
Spectral Noise(1 Hz)	125 μg/√Hz	1,226 (μm/sec²)/√Hz	[1]
Spectral Noise(10 Hz)	40 μg/√Hz	392 (μm/sec²)/√Hz	[1]
Spectral Noise(100 Hz)	15 μg/√Hz	147 (μm/sec²)/√Hz	[1]
Spectral Noise(1 kHz)	4 μg/√Hz	39.2 (μm/sec²)/√Hz	[1]
Electrical Isolation	2,000 VDC	2,000 VDC	[3]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Polymer	Polymer	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.50 in x 0.80 in x 0.50 in	12.7 mm x 20.3 mm x 12.7 mm	
Weight(without cable)	0.20 oz	5.7 gm	[1]
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	
Cable Length	10.00 ft	3.0 m	
Cable Type	4-conductor shielded, polyolefin jacket	4-conductor shielded, polyolefin jacket	
Mounting	Adhesive	Adhesive	

Typical Sensitivity Deviation vs Temperature



CE UKCA [4]

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.

NOTES:

[1]Typical.
[2]Zero-based, least-squares, straight line method.
[3]Maximum.
[4]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

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)

Entered: ND	Engineer: MJN	Sales: KK	Approved: NJF	Spec Number:
Date: 08/12/2026	Date: 08/12/2026	Date: 08/12/2026	Date: 08/12/2026	80036

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