

Model Number  
**355B02**

# ICP® ACCELEROMETER

Revision: H  
ECN #: 29040

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s <sup>2</sup> )	
Measurement Range	± 500 g pk	± 4900 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	1 to 10,000 Hz	1 to 10,000 Hz	
Frequency Range(± 10 %)	0.6 to 12,000 Hz	0.6 to 12,000 Hz	
Frequency Range(± 3 dB)	0.3 to 17,000 Hz	0.3 to 17,000 Hz	
Resonant Frequency	≥ 35 kHz	≥ 35 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0005 g rms	0.005 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	[3]
<b>Environmental</b>			
Overload Limit	± 5000 g pk	± 49,000 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.05 g/με	0.49 (m/s <sup>2</sup> )/με	[1]
<b>Electrical</b>			
Excitation Voltage	22 to 30 VDC	22 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	7 to 15 VDC	7 to 15 VDC	
Discharge Time Constant	0.5 to 2 sec	0.5 to 2 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	90 μg/√Hz	880 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(10 Hz)	15 μg/√Hz	147 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	5 μg/√Hz	49 (μm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	3 μg/√Hz	29 (μm/s <sup>2</sup> )/√Hz	[1]
Electrical Isolation(Base)	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm	
<b>Physical</b>			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.40 in x 0.95 in x 0.63 in	10.2 mm x 24.1 mm x 16.0 mm	
Weight	0.35 oz	10 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting	Through Hole	Through Hole	

**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.

**A - Adhesive Mount**  
Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

**M - Metric Mount**  
Supplied Accessory : Model M039A22 Allen wrench for use with M3 thread (1) replaces Model 039A22  
Supplied Accessory : Model M081B45 off ground screw assembly (1) replaces Model 081B45

**W - Water Resistant Cable**

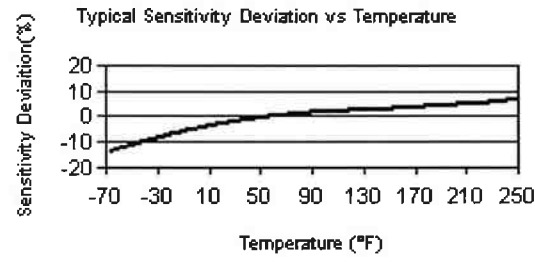
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable
Electrical Connection Position	Side	Side

**NOTES:**

[1] Typical.  
[2] Zero-based, least-squares, straight line method.  
[3] Transverse sensitivity is typically ≤ 3%.  
[4] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**

Model 039A22 Allen wrench, 7/64" hex (1)  
Model 080A109 Petro Wax (1)  
Model 081B45 off ground screw assembly (1)  
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (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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