

Model Number  
**350B50**

# TRIAxIAL ICP® ACCELEROMETER

Revision: H  
ECN #: 38113

	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 30 %)	0.5 mV/g	0.05 mV/(m/s <sup>2</sup> )	
Measurement Range	± 10,000 g pk	± 98,000 m/s <sup>2</sup> pk	
Frequency Range(± 1 dB)	3 to 10,000 Hz	3 to 10,000 Hz	
(-3 dB)	1.5 to 20,000 Hz	1.5 to 20,000 Hz	[2]
Resonant Frequency	≥ 60 kHz	≥ 60 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.03 g rms	0.29 m/s <sup>2</sup> rms	[1]
Non-Linearity	≤ 2 %	≤ 2 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 25,000 g pk	± 245,000 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
<b>Electrical</b>			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.5 to 1.0 sec	0.5 to 1.0 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
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)	0.32 in x 0.72 in x 0.72 in	8.2 mm x 18.3 mm x 18.3 mm	[1]
Weight(without cable)	0.3 oz	8.0 gm	
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	5.0 ft	1.52 m	
Cable Type	034 4-cond Shielded	034 4-cond Shielded	
Mounting	Through Hole	Through Hole	

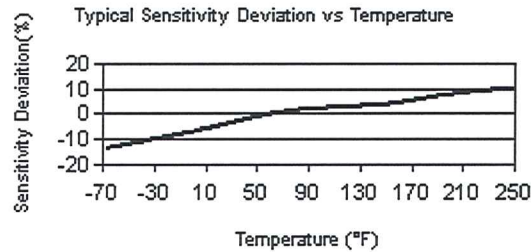
**OPTIONAL VERSIONS**  
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**

- [1] Typical.
- [2] Electrical filter is a second order filter.
- [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 080A197 MOUNTING BASE FOR 350B50 (1)
- Model 081A112 Insulated cap screw, 6-32 thd x 1/2" long (for Model 350B50) (4)
- Model ACS-14T High G shock triaxial accelerometer calibration using Hopkinson bar (1)
- Model ACS-22T NIST Traceable triaxial frequency response (100Hz to ±1 Db 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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Entered: <i>Jot</i>	Engineer: <i>JGB</i>	Sales: <i>Rwm</i>	Approved: <i>BTM</i>	Spec Number:
Date: <i>1-19-12</i>	Date: <i>1-12-12</i>	Date: <i>1-12-12</i>	Date: <i>1-12-12</i>	<b>24324</b>



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