

Model Number  
**350B21**

# ICP® SHOCK ACCELEROMETER

Revision: G  
ECN #: 38113

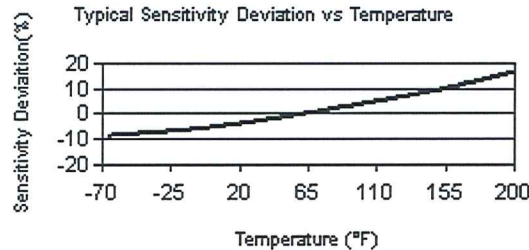
	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 30 %)	0.05 mV/g	0.005 mV/(m/s <sup>2</sup> )	
Measurement Range	± 100,000 g pk	± 980,000 m/s <sup>2</sup> pk	
Frequency Range(± 1 dB)	1 to 10,000 Hz	1 to 10,000 Hz	
(± 3 dB)	0.5 to 35,000 Hz	0.5 to 35,000 Hz	
Resonant Frequency	≥ 200 kHz	≥ 200 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.3 g rms	2.9 m/s <sup>2</sup> rms	[1]
Non-Linearity(per 10,000 g (98,100 m/s <sup>2</sup> ))	± 0.5 %	± 0.5 %	[2]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 200,000 g pk	± 1,960,000 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.2 g/με	2.0 (m/s <sup>2</sup> )/με	[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 0.7 sec	0.5 to 0.7 sec	[1]
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Electrical Isolation(Case)	>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 (Hex x Height)	0.375 in x 0.73 in	9.5 mm x 18.5 mm	
Weight(without cable)	0.15 oz	4.4 gm	[1]
Electrical Connector	Integral Cable	Integral Cable	
Cable Length	10 ft	3.05 m	
Cable Type	031 Twisted Pair	031 Twisted Pair	
Mounting Thread	1/4-28 Male	1/4-28 Male	

**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.

**M - Metric Mount**  
Mounting Thread                      M6 x 0.75 Male                      M6 x 0.75 Male

**NOTES:**  
[1] Typical.  
[2] Value depicts maximum sensitivity change.

**SUPPLIED ACCESSORIES:**  
Model ACS-14 High G shock accelerometer calibration using Hopkinson bar. (1)  
Model ACS-22 NIST Traceable 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>JH</i>	Engineer: <i>JJB</i>	Sales: <i>Rum</i>	Approved: <i>Bar</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>	10141



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