
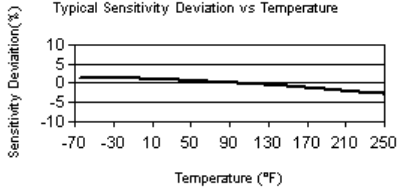


Model Number 353B34	ACCELEROMETER, ICP®		Revision M ECN #: 26810
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±5 %)	100 mV/g	10.19 mV/(m/s ²)	B - Low bias electronics [2] Output Bias Voltage 4.5 to 7.5 VDC 4.5 to 7.5 VDC Excitation Voltage 12 to 30 VDC 12 to 30 VDC Constant Current Excitation 1 to 20 mA 1 to 20 mA Measurement Range ±30 g pk ±294 m/s ² pk
Measurement Range	±50 g pk	±491 m/s ² pk	J - Ground Isolated Frequency Range (±5 %) 1 to 4000 Hz 1 to 4000 Hz Frequency Range (±10 %) 0.7 to 7000 Hz 0.7 to 7000 Hz Resonant Frequency ≥18 kHz ≥18 kHz Electrical Isolation (Base) ≥10 ⁸ ohm ≥10 ⁸ ohm
Frequency Range (±5 %)	1 to 4000 Hz	1 to 4000 Hz	Q - Extended discharge time constant [2] Frequency Range (±5 %) 0.1 to 4000 Hz 0.1 to 4000 Hz Frequency Range (±10 %) 0.07 to 7000 Hz 0.07 to 7000 Hz Discharge Time Constant ≥10 sec ≥10 sec Settling Time (within 10% of bias) <120 sec <120 sec Supplied Accessory: Model ACS-4 Single-axis, low frequency phase and amplitude response calibration from 0.5 to 10 Hz
Frequency Range (±10 %)	0.7 to 7000 Hz	0.7 to 7000 Hz	W - Water Resistant Cable Electrical Connector Sealed Integral Cable Sealed Integral Cable Electrical Connection Position Top Top
Frequency Range (±3 dB)	0.35 to 12000 Hz	0.35 to 12000 Hz	Notes [1] Typical. [2] B and Q options supplied with a sensitivity tolerance of ± 10 %. [3] Zero-based, least-squares, straight line method. [4] Transverse sensitivity is typically ≤= 3%. [5] See PCB Declaration of Conformance PS023 for details.
Resonant Frequency	≥22 kHz	≥22 kHz	Supplied Accessories 080A109 Petro Wax (1) 080A12 Adhesive Mounting Base (1) 081B05 Mounting Stud (10-32 to 10-32) (1) ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1) M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)
Broadband Resolution (1 to 10000 Hz)	0.0005 g rms	0.005 m/s ² rms	
Non-Linearity	≤1 %	≤1 %	
Transverse Sensitivity	≤5 %	≤5 %	
Environmental			
Overload Limit (Shock)	±10000 g pk	±98100 m/s ² pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.0002 g/µε	0.002 (m/s ²)/µε	
Electrical			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤100 ohm	≤100 ohm	
Output Bias Voltage	7.5 to 11.5 VDC	7.5 to 11.5 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time (within 10% of bias)	<25 sec	<25 sec	
Spectral Noise (1 Hz)	320 µg/√Hz	3139 (µm/sec ²)/√Hz	
Spectral Noise (10 Hz)	70 µg/√Hz	687 (µm/sec ²)/√Hz	
Spectral Noise (100 Hz)	18 µg/√Hz	177 (µm/sec ²)/√Hz	
Spectral Noise (1 kHz)	6.4 µg/√Hz	63 (µm/sec ²)/√Hz	
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	0.75 in x 1.26 in	19.1 mm x 32.0 mm	
Weight	0.96 oz	27 gm	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Female	10-32 Female	




Typical Sensitivity Deviation vs Temperature



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: BLS	Engineer: BAM	Sales: WDC	Approved: EB	Spec Number:
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