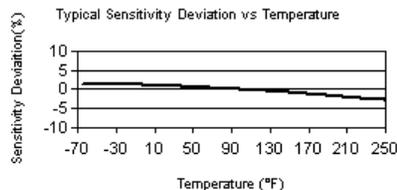


Model Number 353B17	ACCELEROMETER, ICP®		Revision U ECN #: 37278
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)
Sensitivity (±10 %)	10 mV/g	1.02 mV/(m/s ²)	A - Adhesive Mount Supplied Accessory: Model 080A90 Quick bond Gel (for use with accelerometer adhesive mtg bases to fill gaps on rough surfaces)
Measurement Range	±500 g pk	±4905 m/s ² pk	B - Low bias electronics
Frequency Range (±5 %)	1 to 10000 Hz	1 to 10000 Hz	Output Bias Voltage 4.5 to 7.5 VDC 4.5 to 7.5 VDC
Frequency Range (±10 %)	0.7 to 17000 Hz	0.7 to 17000 Hz	Excitation Voltage 12 to 30 VDC 12 to 30 VDC
Frequency Range (±3 dB)	0.35 to 30000 Hz	0.35 to 30000 Hz	Constant Current Excitation 1 to 20 mA 1 to 20 mA
Resonant Frequency	≥70 kHz	≥70 kHz	Measurement Range ±300 g pk ±2943 m/s ² pk
Broadband Resolution (1 to 10000 Hz)	0.005 g rms	0.05 m/s ² rms [1]	J - Ground Isolated
Non-Linearity	≤1 %	≤1 % [2]	Frequency Range (±5 %) 1 to 8000 Hz 1 to 8000 Hz
Transverse Sensitivity	≤5 %	≤5 % [3]	Frequency Range (±10 %) 0.7 to 15000 Hz 0.7 to 15000 Hz
Environmental			Resonant Frequency ≥56 kHz ≥56 kHz
Overload Limit (Shock)	±10000 g pk	±98100 m/s ² pk	Electrical Isolation (Base) ≥10 ⁸ Ohm ≥10 ⁸ Ohm
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	Size (Hex x Height) 3/8 in x 0.77 in 3/8 in x 19.6 mm [1]
Base Strain Sensitivity	≤0.002 g/με	≤0.02 (m/s ²)/με [1]	Weight (without cable) 0.10 oz 2.9 gm [1]
Electrical			M - Metric Mount
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	Mounting Thread M3 x 0.50 Male (M3 x 0.50 Male)
Constant Current Excitation	2 to 20 mA	2 to 20 mA	Supplied Accessory: Model M080A15 Metric adhesive base, 0.31" hex x 0.125" thk, M3 x 0.50 thd, aluminum with insulating hardcoat finish replaces Model 080A15
Output Impedance	≤100 Ohm	≤100 Ohm	Q - Extended discharge time constant
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	Frequency Range (±5 %) 0.15 to 10000 Hz 0.15 to 10000 Hz
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	Frequency Range (±10 %) 0.1 to 17000 Hz 0.1 to 17000 Hz
Settling Time (within 10% of bias)	<5 sec	<5 sec	Discharge Time Constant ≥5 sec ≥5 sec
Spectral Noise (1 Hz)	2800 μg/√Hz	27468 (μm/sec ²)/√Hz [1]	Settling Time (within 10% of bias) <45 sec <45 sec
Spectral Noise (10 Hz)	700 μg/√Hz	6867 (μm/sec ²)/√Hz [1]	Supplied Accessory: Model ACS-97 Single axis, low frequency phase and amplitude response cal from 1 to 10 Hz
Spectral Noise (100 Hz)	180 μg/√Hz	1766 (μm/sec ²)/√Hz [1]	W - Water Resistant Cable
Spectral Noise (1 kHz)	64 μg/√Hz	628 (μm/sec ²)/√Hz [1]	Temperature Range (Operating) -20 to 220 °F -29 to 104 °C
Physical			Electrical Connector Sealed Integral Sealed Integral
Size (Height)	0.59 in	15.0 mm	Cable Cable
Weight (without cable)	0.06 oz	1.7 gm [1]	Electrical Connection Position Top Top
Sensing Element	Quartz	Quartz	Cable Length 10 ft 3 ft
Size (Hex)	9/32 in	9/32 in	Cable Type 018 Coaxial 018 Coaxial
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Top	Top	
Cable Termination	10-32 Coaxial Plug	10-32 Coaxial Plug	
Cable Length	10 ft	3 m	
Cable Type	031 Twisted Pair	031 Twisted Pair	
Mounting Thread	5-40 Male	5-40 Male	
Mounting Torque	8 to 12 in-lb	90 to 135 N-cm	



- 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
080A109 Petro Wax (1)
080A15 Adhesive Mounting Base (1)
ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: BAM	Engineer: WDC	Sales: RPF	Approved: ECB	Spec Number:
Date: 10/14/2011	Date: 10/14/2011	Date: 10/14/2011	Date: 10/14/2011	353-2170-80

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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