

Model Number 393B05	SEISMIC ICP® ACCELEROMETER	Revision: K ECN #: 47130
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 10 %)	10 V/g	1.02 V/(m/s ²)	
Measurement Range	0.5 g pk	4.9 m/s ² pk	
Frequency Range(± 5 %)	0.7 to 450 Hz	0.7 to 450 Hz	
Frequency Range(± 10 %)	0.5 to 750 Hz	0.5 to 750 Hz	
Frequency Range(± 3 dB)	0.2 to 1700 Hz	0.2 to 1700 Hz	
Resonant Frequency	≥ 2.5 kHz	≥ 2.5 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.000004 g rms	0.00004 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 300 g pk	± 2950 m/s ² pk	
Temperature Range	-15 to +176 °F	-26 to +80 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	≤ 0.0005 g/με	≤ 0.005 (m/s ²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 10 mA	2 to 10 mA	
Output Impedance	<500 Ohm	<500 Ohm	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.5 to 2.0 sec	0.5 to 2.0 sec	
Settling Time	<100 sec	<100 sec	
Spectral Noise(1 Hz)	0.50 μg/√Hz	4.9 (μm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	0.10 μg/√Hz	1.0 (μm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	0.07 μg/√Hz	0.7 (μm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	0.05 μg/√Hz	0.5 (μm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Flexural	Flexural	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Diameter x Height)	0.99 in x 1.22 in	25 mm x 31 mm	
Weight	1.8 oz	50 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Top	Top	
Mounting Thread	10-32 Female	10-32 Female	

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.

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4
TLA - TEDS LMS International - Free Format
TLB - TEDS LMS International - Automotive Format
TLC - TEDS LMS International - Aeronautical Format
TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

Excitation Voltage	20 to 30 VDC	20 to 30 VDC
Output Bias Voltage	7.5 to 13 VDC	7.5 to 13 VDC

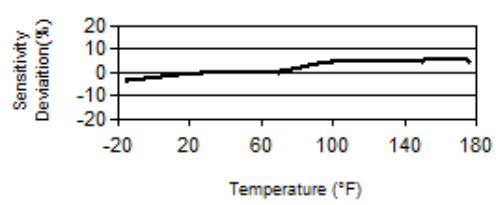
W - Water Resistant Cable

Electrical Connection Position	Top	Top
Electrical Connector	Sealed Integral Cable	Sealed Integral Cable

NOTES:
[1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
Model 081B05 Mounting Stud (10-32 to 10-32) (1)
Model 085A41 Thermal Boot (1)
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

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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