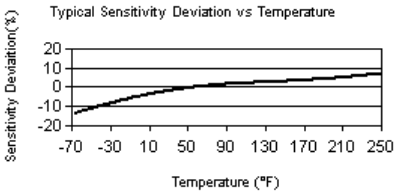
Model Number 393A03	ACCELEROMETER, ICP®, SEISMIC	Revision H ECN #: 29751

Performance	ENGLISH	SI	
Sensitivity (±5 %)	1000 mV/g	102 mV/(m/s²)	
Measurement Range	±5 g pk	±49 m/s² pk	
Frequency Range (±5 %)	0.5 to 2000 Hz	0.5 to 2000 Hz	
Frequency Range (±10 %)	0.3 to 4000 Hz	0.3 to 4000 Hz	
Frequency Range (±3 dB)	0.2 to 6000 Hz	0.2 to 6000 Hz	
Resonant Frequency	≥10 kHz	≥10 kHz	
Broadband Resolution (1 to 10000 Hz)	0.00001 g rms	0.0001 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[2]
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	±5000 g pk	±49050 m/s² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Base Strain Sensitivity	≤0.0005 g/με	≤0.005 (m/s²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<250 Ohm	<250 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	1 to 3 sec	1 to 3 sec	
Settling Time	<15 sec	<15 sec	
Spectral Noise (1 Hz)	2 μg/√Hz	20 (μm/sec^2/√Hz	[1]
Spectral Noise (10 Hz)	0.5 μg/√Hz	5 (μm/sec^2/√Hz	[1]
Spectral Noise (100 Hz)	0.2 μg/√Hz	2 (μm/sec^2/√Hz	[1]
Spectral Noise (1 kHz)	0.1 μg/√Hz	1 (μm/sec^2/√Hz	[1]
Electrical Isolation (Case)	≥10^8 Ohm	≥10^8 Ohm	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	1 3/16 in x 2 3/16 in	30.2 mm x 55.6 mm	
Weight	7.4 oz	210 gm	[1]
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	
Mounting Thread	1/4-28 Female	1/4-28 Female	
Mounting Torque	2 to 5 ft-lb	3 to 7 Nm	

CE[3]



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.

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

Output Bias Voltage	8.5 to 12.5 VDC	8.5 to 12.5 VDC

Notes

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

Supplied Accessories

081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (1)
085A31 Protective Thermal Jacket (1)
ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)
M081B20 Mounting Stud 1/4-28 to M6 X 0.75 (1)

Entered: WDC				Spec Number:
Date: 11/24/2008				**393-1030-80**

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