

Model Number
393A03

SEISMIC ICP® ACCELEROMETER

Revision: H
ECN #: 29751

	ENGLISH	SI	
Performance			
Sensitivity(± 5 %)	1000 mV/g	102 mV/(m/s ²)	
Measurement Range	± 5 g pk	± 49 m/s ² 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 10,000 Hz)	0.00001 g rms	0.0001 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °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 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 N-m	

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.

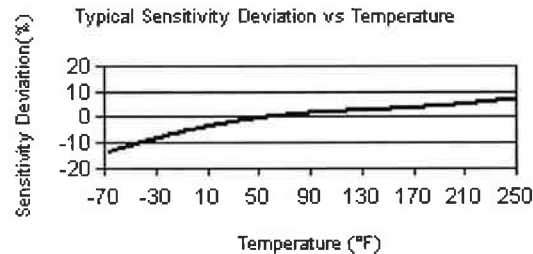
T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4
Output Bias Voltage 8.5 to 12.5 VDC 8.5 to 12.5 VDC

NOTES:

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

SUPPLIED ACCESSORIES:

- Model 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (1)
- Model 085A31 Protective Thermal Jacket (1)
- Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)
- Model ACS-4 Single axis, low frequency phase and amplitude response cal from 0.5 to 10 Hz (1)
- Model M081B20 Mounting Stud 1/4-28 to M6 X 0.75 (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>JJA</i>	Engineer: <i>SA</i>	Sales: <i>WDC</i>	Approved: <i>EB</i>	Spec Number:
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