

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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Model Number	SEISMIC ICP® ACCELEROMETER	Revision: P
393C		ECN #: 17220

Performance	ENGLISH	SI	
Sensitivity (±15 %)	1000 mV/g	101.9 mV/(m/s²)	
Measurement Range	2.5 g pk	24.5 m/s² pk	
Frequency Range (±5 %)	0.025 to 800 Hz	0.025 to 800 Hz	
Frequency Range (±10 %)	0.01 to 1200 Hz	0.01 to 1200 Hz	
Resonant Frequency	≥3.5 kHz	≥3.5 kHz	
Broadband Resolution (1 to 10000 Hz)	0.0001 g rms	0.001 m/s² rms	[1]
Non-Linearity	≤1 %	≤1 %	[2]
Transverse Sensitivity	≤5 %	≤5 %	
Environmental			
Overload Limit (Shock)	±100 g pk	±981 m/s² pk	
Temperature Range	-65 to +200 °F	-54 to +93 °C	
Temperature Response	<0.03 %/°F	<0.054 %/°C	[1]
Base Strain Sensitivity	0.001 g/με	0.01 (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	<100 ohms	<100 ohms	
Output Bias Voltage	3.0 to 4.5 VDC	3.0 to 4.5 VDC	
Discharge Time Constant	≥20 sec	≥20 sec	
Settling Time	300 sec	300 sec	[1]
Electrical Isolation (Base)	$\geq 10^8$ ohms	$\geq 10^8$ ohms	
Physical			
Sensing Element	Quartz	Quartz	
Sensing Geometry	Compression	Compression	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Size (Diameter x Height)	2.25 in x 2.16 in	57.2 mm x 54.9 mm	
Weight	31.2 oz	885 gm	[1]
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	

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.

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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.

NOTES:

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

SUPPLIED ACCESSORIES:

Model 080A109 Petro Wax (1)
Model 080A88 Mounting Base (1)
Model 081B05 Mounting Stud (10-32 to 10-32) (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 calibration. (1)
Model M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

Entered: DMO	Engineer: DMO	Sales: WDL	Approved:	Spec Number:
Date: 4/2/07	Date: 4/2/07	Date: 4/2/3	Date: 4/2/3	393-3010-80

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