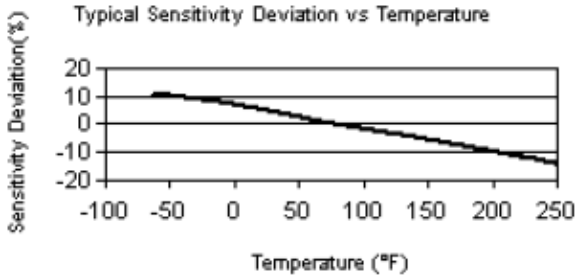
Model Number
SEN041F

TRIAXIAL ICP® ACCELEROMETER

Revision: C

Performance	ENGLISH	SI	Notes
Voltage Sensitivity (± 15 %)	10 mV/g	1.02 mV/(m/s²)	
Measurement Range	± 500 g pk	± 4905 m/s² pk	
Frequency Range (- 5 %)	2 to 4000 Hz	2 to 4000 Hz	
Resonant Frequency	≥ 55 kHz	≥ 5 kHz	
Electrical Filter Roll-off	6 dB/octave	6 dB/octave	[1]
Electrical Filter Corner Frequency	15 kHz	15 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	0.008 g rms	0.08 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit (Shock)	± 10000 g pk	± 98100 m/s² pk	
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 Ohms	≤ 200 Ohms	
Output Bias Voltage	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.3 to 1.0 s	0.3 to 1.0 s	
Settling Time (within 10 % of bias)	< 3 s	< 3 s	
Spectral Noise (1 Hz)	445 µg/√Hz	4365 (µm/s²)/√Hz	[1]
Spectral Noise (10 Hz)	135 µg/√Hz	1325 (µm/s²)/√Hz	[1]
Spectral Noise (100 Hz)	90 µg/√Hz	883 (µm/s²)/√Hz	[1]
Spectral Noise (1 kHz)	80 µg/√Hz	785 (µm/s²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.40 x 0.77 x 0.40 in	10.2 x 19.6 x 10.2 mm	
Weight	0.19 oz	5.3 gm	[1]
Electrical Connector	¼-28 4-Pin	¼-28 4-Pin	
Electrical Connector Position	Side	Side	
Mounting Thread	5-40 Female	5-40 Female	

CE



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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Notes
[1] Typical
[2] Zero-based, least-square, straight line method

Supplied Accessories
NIST Traceable Calibration Certificate
Model 081A90 Mounting Stud, 10-32 to 5-40 (1)

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