

Model Number  
**SEN040F**

# TRIAxIAL ICP® ACCELEROMETER

Revision: D

## Performance

Voltage Sensitivity ( $\pm 20\%$ )  
Measurement Range  
Frequency Range ( $-5\%$ )  
Resonant Frequency  
Electrical Filter Roll-off  
Electrical Filter Corner Frequency  
Broadband Resolution (1 to 10000 Hz)  
Non-Linearity  
Transverse Sensitivity

## ENGLISH

1.0 mV/g  
 $\pm 5000$  g pk  
2 to 4000 Hz  
 $\geq 55$  kHz  
6 dB/octave  
20 kHz  
0.03 g rms  
 $\leq 2.5\%$   
 $\leq 5\%$

## SI

0.1 mV/(m/s<sup>2</sup>)  
 $\pm 49050$  m/s<sup>2</sup> pk  
2 to 4000 Hz  
 $\geq 5$  kHz  
6 dB/octave  
20 kHz  
0.29 m/s<sup>2</sup> rms  
 $\leq 2.5\%$   
 $\leq 5\%$

## Notes

[2]  
[1]  
[1]  
[1]  
[3]

## Environmental

Overload Limit (Shock)  
Temperature Range (Operating)  
Temperature Response

$\pm 10000$  g pk  
-65 to +250 °F  
See Graph

$\pm 98100$  m/s<sup>2</sup> pk  
-54 to +121 °C  
See Graph

## Electrical

Excitation Voltage  
Constant Current Excitation  
Output Impedance  
Output Bias Voltage  
Discharge Time Constant  
Settling Time (within 10 % of bias)  
Spectral Noise (1 Hz)  
Spectral Noise (10 Hz)  
Spectral Noise (100 Hz)  
Spectral Noise (1 kHz)

18 to 30 VDC  
2 to 20 mA  
 $\leq 200$  Ohms  
7 to 12 VDC  
1.5 to 3.0 s  
< 10 s  
9000  $\mu$ g/ $\sqrt{\text{Hz}}$   
2500  $\mu$ g/ $\sqrt{\text{Hz}}$   
800  $\mu$ g/ $\sqrt{\text{Hz}}$   
250  $\mu$ g/ $\sqrt{\text{Hz}}$

18 to 30 VDC  
2 to 20 mA  
 $\leq 200$  Ohms  
7 to 12 VDC  
1.5 to 3.0 s  
< 10 s  
88290 ( $\mu\text{m/s}^2$ )/ $\sqrt{\text{Hz}}$   
24525 ( $\mu\text{m/s}^2$ )/ $\sqrt{\text{Hz}}$   
7848 ( $\mu\text{m/s}^2$ )/ $\sqrt{\text{Hz}}$   
2453 ( $\mu\text{m/s}^2$ )/ $\sqrt{\text{Hz}}$

[1]  
[1]  
[1]  
[1]

## Physical

Sensing Element  
Sensing Geometry  
Housing Material  
Sealing  
Size (Height x Length x Width)  
Weight  
Electrical Connector  
Electrical Connector Position  
Mounting Thread

Ceramic  
Shear  
Titanium  
Hermetic  
0.40 x 0.77 x 0.40 in  
0.18 oz  
 $\frac{1}{4}$ -28 4-Pin  
Side  
5-40 Female

Ceramic  
Shear  
Titanium  
Hermetic  
10.2 x 19.6 x 10.2 mm  
5.0 gm  
 $\frac{1}{4}$ -28 4-Pin  
Side  
5-40 Female

[1]

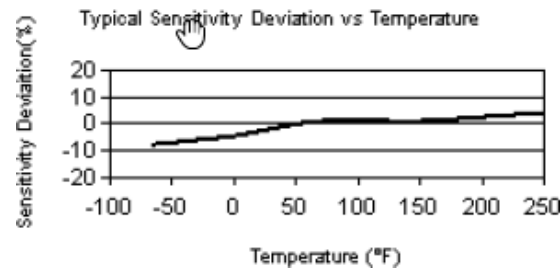


## Notes

- [1] Typical
- [2] All axes filtered to provide  $-5\%$  between 4000 and 6000 Hz
- [3] Zero-based, least-square, straight line method

## Supplied Accessories

NIST Traceable Calibration Certificate  
Model 080A90 Mounting Stud, 10-32 to 5-40 (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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**GMGA MEASURING**

**Address: No. 33 Alley 99/120 Dinh Cong Ha, Dinh Cong Ward, Hoang Mai District, 10000 Hanoi City, Vietnam**

**Telephone: [+84 845 969 336](tel:+84845969336)**

**Email: [info@gmga.vn](mailto:info@gmga.vn)**

**Website: <https://gmga.vn/>**