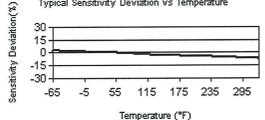
Model	Numbe
HT6	28F01

# HIGH TEMPERATURE INDUSTRIAL ICP® ACCELEROMETER

Revision: C

ECN #: 34836

111020101				
Performance	<u>ENGLISH</u>	<u>SI</u>		
Sensitivity(± 5 %)	100 mV/g	10.2 mV/(m/s²)	[4]	
Measurement Range	± 50 g	± 490 m/s <sup>2</sup>		
Frequency Range(± 5 %)	144 to 180,000 cpm	2.4 to 3000 Hz	[5]	
(± 10 %)	102 to 300,000 cpm	1.7 to 5000 Hz		
(± 3 dB)	48 to 480,000 cpm	0.8 to 8000 Hz		
Resonant Frequency	1080 kcpm	18 kHz	[2]	
Broadband Resolution(1 to 10 kHz)	1 mg	9.8 mm/s <sup>2</sup>	[2]	
Non-Linearity	± 1 %	± 1 %	[6]	
Transverse Sensitivity	≤ 5 %	≤ 5 %		
Environmental				
Overload Limit(Shock)	1000 g pk	981 m/s² pk	[3]	
Temperature Range	-65 to +325 °F	-54 to +162 °C		
(Survivable Limit)	+350 °F	+176 °C		
Temperature Response	See Graph	See Graph	[2]	
Enclosure Rating	IP68	IP68		
Electrical				
Settling Time(within 1% of bias)	≤ 3 sec	≤ 3 sec		
Discharge Time Constant	≥ 0.2 sec	≥ 0.2 sec		
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	2.2	
Constant Current Excitation	2 to 10 mA	2 to 10 mA	[1]	
Output Impedance	<500 ohm	<500 ohm		
Output Bias Voltage	8 to 12 VDC 8 to 12 VD		559	
Spectral Noise(10 Hz)	50 μg/√Hz	491 (µm/sec <sup>2</sup> )/√Hz	[2]	
(100 Hz)	20 μg/√Hz	196 (µm/sec <sup>2</sup> )/√Hz	[2]	
(1 kHz)	6 μg/√Hz	59 (µm/sec <sup>2</sup> )/√Hz	[2]	
Electrical Protection	RFI/ESD	RFI/ESD		
Electrical Isolation(Case)	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm		
Physical				
Size (Hex x Height)	7/8 in x 2.06 in	22.2 mm x 52.3 mm		
Weight	3.2 oz	91 gm		
Mounting Thread	1/4-28 UNF	No Metric Equivalent	[7]	
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m		
Sensing Element	Quartz	Quartz		
Sensing Geometry	Shear	Shear		
Housing Material	Stainless Steel	Stainless Steel		
Sealing	Welded Hermetic	Welded Hermetic		
Electrical Connector	MIL-C-5015	MIL-C-5015		
Electrical Connection Position	Тор	Тор		
Typical Sensitivity Deviation vs Temperature				



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.

### M - Metric Mount

Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model

## NOTES:

- [1] Constant current should be reduced to ≤6 mA when operating sensor above 250°F.
- [2] Typical.
- [3] Not recommended for use with magnetic mounting base.
  [4] Conversion Factor 1g = 9.81 m/s².
- [5] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [6] Zero-based, least-squares, straight line method.
- [7] 1/4-28 has no equivalent in S.I. units.
- [8] See PCB Declaration of Conformance PS023 for details.

# SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud (1)

Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency

Entered: JU	Engineer:	Sales: Egy	Approved:	Spec Number:
Date:  -11	Date: (-1(-7)	Date: 1/1/1	Date: 1-18-11	11448



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