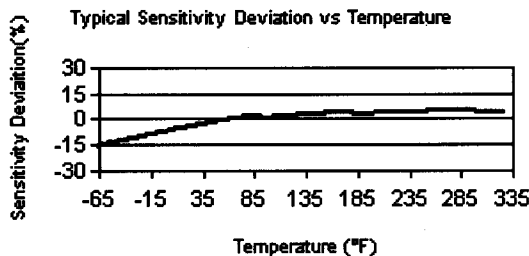


Model Number
HT625B01

INDUSTRIAL ICP® ACCELEROMETER

Revision: A
ECN #: 24311

	ENGLISH	SI	
Performance			
Sensitivity (± 5 %)	100 mV/g	10.2 mV/(m/s ²)	[4]
Measurement Range	± 50 g	± 490 m/s ²	
Frequency Range (± 5 %)	30 to 240,000 cpm	0.5 to 4000 Hz	[5][6]
Frequency Range (± 10 %)	22 to 360,000 cpm	0.37 to 6000 Hz	
Frequency Range (± 3 dB)	12 to 600,000 cpm	0.2 to 10,000 Hz	
Resonant Frequency	1380 kcpm	23 kHz	[3]
Broadband Resolution (1 to 10,000 Hz)	200 µg	1962 µm/s ²	[3]
Non-Linearity	± 1 %	± 1 %	[7]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit (Shock)	2000 g pk	19,620 m/s ² pk	
Temperature Range	-65 to +325 °F	-54 to +163 °C	
Temperature Response	See Graph	See Graph	[3]
Electrical			
Settling Time (within 1% of bias)	≤ 8 sec	≤ 8 sec	
Discharge Time Constant	≥ 1.0 sec	≥ 1.0 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 10 mA	2 to 10 mA	[1]
Output Impedance	<250 ohm	<250 ohm	
Output Bias Voltage (at 4 mA)	8 to 15 VDC	8 to 15 VDC	[2]
Spectral Noise (10 Hz)	10 µg/√Hz	98.1 (µm/s ²)/√Hz	[3]
Spectral Noise (100 Hz)	6.0 µg/√Hz	58.9 (µm/s ²)/√Hz	[3]
Spectral Noise (1 kHz)	1.5 µg/√Hz	14.7 (µm/s ²)/√Hz	[3]
Electrical Isolation	>10 ⁸ ohm	>10 ⁸ ohm	
Physical			
Size (Diameter x Height)	1.36 in x 1.13 in	35 mm x 29 mm	
Weight	5.1 oz	145 gm	
Mounting Thread	1/4-28 UNF	No Metric Equivalent	[8]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 N-m	
Sensing Element	Ceramic	Ceramic	
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	Side	Side	



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 M081A73 Mounting Bolt M6 x 1.00 (1) replaces Model 081A73

NOTES:

- [1] Maximum of 4 mA is recommended at temperatures above 250 °F (121 °C).
- [2] Bias voltage increases with higher constant current.
- [3] Typical.
- [4] Conversion Factor 1g = 9.81 m/s².
- [5] 1Hz = 60 cpm (cycles per minute).
- [6] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [7] Zero-based, least-squares, straight line method.
- [8] 1/4-28 has no equivalent in S.I. units.

SUPPLIED ACCESSORIES:

Model 081A73 Captive mounting bolt 1/4-28 x 1.34" (1)
Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)

Entered: <i>JH</i>	Engineer: <i>D.P.</i>	Sales: <i>M/P</i>	Approved: <i>MD</i>	Spec Number:
Date: <i>5/23/06</i>	Date: <i>5/24/06</i>	Date: <i>5/24/06</i>	Date: <i>5/30/06</i>	14027

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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