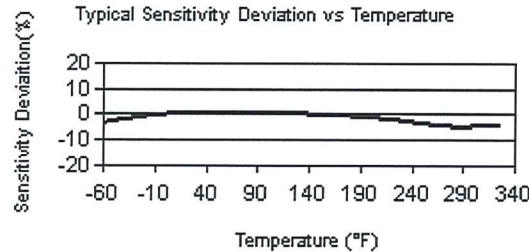


Model Number
HT602D01

INDUSTRIAL ICP® ACCELEROMETER

Revision: NR
ECN #: 35755

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	[2]
Measurement Range	± 50 g	± 490 m/s ²	
Frequency Range(± 10 %)	102 to 180,000 cpm	1.7 to 3000 Hz	[3][4]
(± 3 dB)	48 to 480,000 cpm	0.8 to 8000 Hz	
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution(1 to 10 kHz)	150 µg	1472 µm/sec ²	[1]
Non-Linearity	± 1 %	± 1 %	[5]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	5000 g pk	49,050 m/s ² pk	
Temperature Range	-65 to 325 °F	-54 to 162 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time(within 1% of bias)	≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constant	≥ 0.2 sec	≥ 0.2 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<150 ohm	<150 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	9.0 µg/√Hz	88.3 (µm/sec ²)/√Hz	[1]
(100 Hz)	4.0 µg/√Hz	39.2 (µm/sec ²)/√Hz	[1]
(1 kHz)	2.0 µg/√Hz	19.6 (µm/sec ²)/√Hz	[1]
Electrical Isolation	>10 ⁸ ohm	>10 ⁸ ohm	
Physical			
Size (Length x Width x Height)	2.1 in x 1.0 in x 1.0 in	53.3 mm x 25.4 mm x 25.4 mm	
Weight	5.4 oz	153 gm	
Mounting Thread	1/4-28 UNF	No Metric Equivalent	[6]
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	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Side	Side	
Electrical Connections(Pin A)	Signal / Power	Signal / Power	
(Pin B)	Ground	Ground	



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.

ICP® is a registered trademark of PCB Group, Inc.

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)

NOTES:

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] 1Hz = 60 cpm (cycles per minute).
- [4] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [5] Zero-based, least-squares, straight line method.
- [6] 1/4-28 has no equivalent in S.I. units.
- [7] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 081A73 Captive mounting bolt 1/4-28 x 1.34" (1)

Entered: <i>LH</i>	Engineer: <i>DOBT</i>	Sales: <i>LB</i>	Approved: <i>SAM</i>	Spec Number:
Date: <i>5-16-11</i>	Date: <i>5-9-11</i>	Date: <i>5-9-11</i>	Date: <i>5-10-11</i>	49969

IMI SENSORS
A PCB PIEZOTRONICS DIV.
3425 Walden Avenue, Depew, NY 14043

Phone: 800-959-4464
Fax: 716-684-3823
E-Mail: imi@pcb.com