

Model Number  
HT602D11

# INDUSTRIAL ICP® ACCELEROMETER

Revision: A  
ECN #: 45253

## Performance

	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	± 50 g	± 490 m/s <sup>2</sup>	
Frequency Range(± 3 dB)	48 to 480,000 cpm	0.8 to 8000 Hz	[3][4]
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution(1 to 10 kHz)	150 µg	1472 µm/sec <sup>2</sup>	[1]
Non-Linearity	± 1 %	± 1 %	[5]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

## Environmental

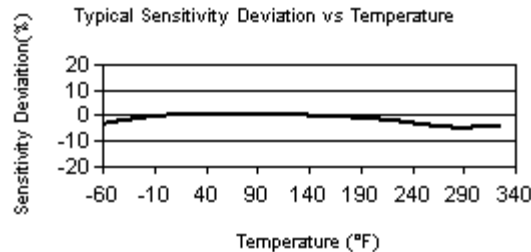
Overload Limit(Shock)	5000 g pk	49,050 m/s <sup>2</sup> pk	
Temperature Range	-65 to 325 °F	-54 to 162 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP67	IP67	

## 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 <sup>2</sup> )/√Hz	[1]
Spectral Noise(100 Hz)	4.0 µg/√Hz	39.2 (µm/sec <sup>2</sup> )/√Hz	[1]
Spectral Noise(1 kHz)	2.0 µg/√Hz	19.6 (µm/sec <sup>2</sup> )/√Hz	[1]
Electrical Isolation	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> 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(without cable)	5.4 oz	153 gm
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm
Sensing Element	Ceramic	Ceramic
Sensing Geometry	Shear	Shear
Housing Material	Stainless Steel	Stainless Steel
Electrical Connector	Integral Cable	Integral Cable
Electrical Connection Position	Side	Side
Cable Termination	Blunt cut	Blunt cut
Electrical Connections(White)	Signal / Power	Signal / Power
Electrical Connections(Black)	Ground	Ground
Cable Length	10 ft	3.0 m
Cable Type	055 2-cond shielded with FEP jacket 055 2-cond shielded with FEP jacket	



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 M081A73 Mounting Bolt M6 x 1.00 (1)

## NOTES:

- [1]Typical.
- [2]Conversion Factor 1g = 9.81 m/s<sup>2</sup>.
- [3]The high frequency tolerance is accurate within ±10% of the specified frequency.
- [4]1Hz = 60 cpm (cycles per minute).
- [5]Zero-based, least-squares, straight line method.
- [6]See PCB Declaration of Conformance PS023 for details.

## SUPPLIED ACCESSORIES:

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

Entered: LK	Engineer: BAM	Sales: MC	Approved: BAM	Spec Number:
Date: 3/31/2016	Date: 3/31/2016	Date: 3/31/2016	Date: 3/31/2016	49984

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