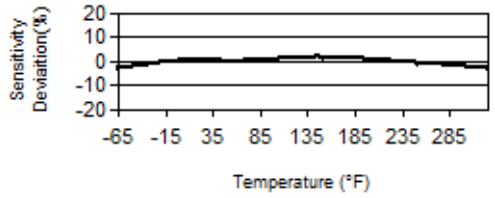
Model Number HT622B00	INDUSTRIAL ICP® ACCELEROMETER	Revision: B ECN #: 50872

Performance	ENGLISH	SI	
Sensitivity(± 5 %)	10 mV/g	1.02 mV/(m/s²)	[1]
Measurement Range	± 500 g	± 4,900 m/s²	
Frequency Range(± 5 %)	35 to 360,000 cpm	0.58 to 6,000 Hz	
Frequency Range(± 10 %)	25 to 600,000 cpm	0.42 to 10,000 Hz	[2][3]
Frequency Range(± 3 dB)	12 to 720,000 cpm	0.2 to 12,000 Hz	
Resonant Frequency	1,980 kcpm	33 kHz	[4]
Broadband Resolution(1 to 10,000 Hz)	330 µg	3,234 µm/sec²	[4]
Non-Linearity	± 1 %	± 1 %	[5]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	5,000 g pk	49,050 m/s² pk	
Temperature Range	-65 to +325 °F	-54 to +163 °C	
Temperature Response	See Graph	See Graph	[4]
Electrical			
Settling Time(within 1% of bias)	≤ 8 sec	≤ 8 sec	
Discharge Time Constant	≥ 0.8 sec	≥ 0.8 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 28 mA	2 to 28 mA	
Output Impedance	< 700 Ohm	< 700 Ohm	
Output Bias Voltage	8 to 15 VDC	8 to 15 VDC	
Spectral Noise(10 Hz)	12 µg/√Hz	118 (µm/sec²)/√Hz	[4]
Spectral Noise(100 Hz)	3.2 µg/√Hz	31.4 (µm/sec²)/√Hz	[4]
Spectral Noise(1 kHz)	2.5 µg/√Hz	24.5 (µm/sec²)/√Hz	[4]
Electrical Protection	RFI/ESD	RFI/ESD	
Electrical Isolation	> 10^8 Ohm	> 10^8 Ohm	
Physical			
Size (Hex x Height)	7/8 in x 2.06 in	22 mm x 52.3 mm	
Weight	3.3 oz	94 gm	
Mounting Thread	1/4-28 Female	1/4-28 Female	[6]
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	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	3-Pin MIL-C-5015	3-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	
Electrical Connections(Pin A)	Acceleration Output	Acceleration Output	
Electrical Connections(Pin B)	Neg (-) Ground	Neg (-) Ground	
Electrical Connections(Pin C)	Temperature Output	Temperature Output	

CE [7]

Typical Sensitivity Deviation vs Temperature



C SA US

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. [8]

EX - Hazardous Area Approval- contact factory for specific approvals

M - Metric Mount

TO - Temperature Output

Temperature Output Range	+36 to +325 °F	+2 to +163 °C
Temperature Scale Factor	5.56 mV/°F + 32	+10 mV/°C
Electrical Connector	3-Pin	3-Pin
Electrical Connections(Pin A)	Acceleration Output	Acceleration Output
Electrical Connections(Pin B)	Ground	Ground
Electrical Connections(Pin C)	Temperature Output	Temperature Output

NOTES:

[1]Conversion Factor 1g = 9.81 m/s².
[2]The high frequency tolerance is accurate within ±10% of the specified frequency.
[3]1Hz = 60 cpm (cycles per minute).
[4]Typical.
[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 or PS061 for details.
[8]EEx ia IIC T4.

SUPPLIED ACCESSORIES:

Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)
Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)

Entered: LK	Engineer: gs	Sales: MC	Approved: BAM	Spec Number:
Date: 06/25/2020	Date: 06/25/2020	Date: 06/25/2020	Date: 06/25/2020	66218

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