

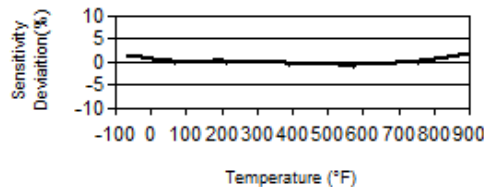
Model Number
EX600B14

VERY HIGH TEMPERATURE INDUSTRIAL ICP® ACCELEROMETER

Revision: B
ECN #: 46623

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 5 %)	10 mV/g	1.02 mV/(m/s ²)	[2]
Measurement Range(Peak)	± 500 g	± 4900 m/s ²	
Frequency Range(± 5 %)	282 to 210,000 cpm	4.7 to 3500 Hz	[3][4]
Frequency Range(± 10 %)	204 to 300,000 cpm	3.4 to 5000 Hz	
Resonant Frequency	1200 kcpm	20 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	4 mg	39 mm/s ²	[1][2]
Non-Linearity	± 1 %	± 1 %	[5]
Transverse Sensitivity	<5 %	<5 %	
Environmental			
Overload Limit(Shock)	1000 g pk	9810 m/s ² pk	[2]
Temperature Range(Accelerometer)	-65 to +900 °F	-54 to +482 °C	
Temperature Range(Charge Amplifier)	-60 to +250 °F	-51 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	≤ 0.01 g/με	≤ 0.1 (m/s ²)/με	[2]
Electrical			
Settling Time(at 70 °F within 1% of bias)	≤ 1.0 sec	≤ 1.0 sec	
Discharge Time Constant	≥ .10 sec	≥ .10 sec	
Excitation Voltage	22 to 28 VDC	22 to 28 VDC	
Constant Current Excitation	2.2 to 20 mA	2.2 to 20 mA	
Output Impedance	<1000 Ohm	<1000 Ohm	[1]
Output Bias Voltage	12 to 16 VDC	12 to 16 VDC	
Spectral Noise(10 Hz)	260 μg/√Hz	2550 (μm/sec ²)/√Hz	[1][2]
Spectral Noise(100 Hz)	60 μg/√Hz	590 (μm/sec ²)/√Hz	[1][2]
Spectral Noise(1 kHz)	30 μg/√Hz	295 (μm/sec ²)/√Hz	[1][2]
Electrical Isolation	>10 ⁸ Ohm	>10 ⁸ Ohm	
Physical			
Size (Diameter x Height)	1.5 in x 0.75 in	38.1 mm x 19.1 mm	
Weight(with cable)	10.5 oz	300 gm	
Mounting	Through Holes (3)	Through Holes (3)	
Sensing Element	UHT-12™	UHT-12™	
Sensing Geometry	Shear	Shear	
Housing Material	Inconel	Inconel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Side	Side	
Cable Length	10 ft	3 m	
Cable Type	Integral Hardline	Integral Hardline	

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.

NOTES:

- [1] Typical value.
- [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] See PCB Declaration of Conformance PS116 for details.

SUPPLIED ACCESSORIES:

Model 081A99 Cap Screw (3)
Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)

Entered: LK	Engineer: GJR	Sales: JC	Approved: BAM	Spec Number:
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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