

Model Number  
626B01

## LOW FREQUENCY INDUSTRIAL ICP® ACCELEROMETER

Revision C  
ECN #: 25838

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity (±5 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	±50 g	±490 m/s <sup>2</sup>	
Frequency Range (±5 %)	30 to 300000 cpm	0.5 to 5000 Hz	[3]
Frequency Range (±10 %)	22 to 420000 cpm	0.37 to 7000 Hz	
Frequency Range (±3 dB)	12 to 600000 cpm	0.2 to 10000 Hz	
Resonant Frequency	1380 kcpm	23 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	100 µg	981 µm/sec <sup>2</sup>	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤5 %	≤5 %	
<b>Environmental</b>			
Overload Limit (Shock)	5000 g pk	49050 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Settling Time (within 1% of bias)	≤5.0 sec	≤5.0 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 20 mA	2 to 20 mA	
Output Impedance	<100 Ohm	<100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (1 Hz)	15 µg/√Hz	147.2 (µm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (10 Hz)	4.0 µg/√Hz	39.2 (µm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (100 Hz)	1.5 µg/√Hz	14.7 (µm/sec <sup>2</sup> /√Hz)	[1]
Spectral Noise (1 kHz)	0.7 µg/√Hz	6.9 (µm/sec <sup>2</sup> /√Hz)	[1]
Electrical Protection	RFI/ESD	RFI/ESD	
Electrical Isolation (Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	
<b>Physical</b>			
Size (Hex x Height)	1 3/16 in x 2 3/16 in	30.2 mm x 55.6 mm	
Weight	5.3 oz	150 gm	[5]
Mounting Thread	1/4-28 UNF	1/4-28 UNF	
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	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	

**Optional Versions** (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

**M - Metric Mount**

Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40

**TO - Temperature Output**

Temperature Output Range	+36 to +250 °F	+2 to +121 °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

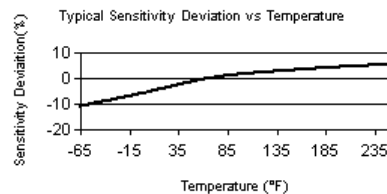
**Notes**

- [1] 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] Zero-based, least-squares, straight line method.
- [5] 1/4-28 has no equivalent in S.I. units.
- [6] See PCB Declaration of Conformance PS023 for details.

**Supplied Accessories**

081A40 Mounting Stud (1)  
085A31 Protective Thermal Jacket (1)  
ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency ( )

Entered: LLH	Engineer: LAB	Sales: LLH	Spec Number:
Date: 02/13/2007	Date: 02/14/2007	Date: 02/14/2007	<b>16892</b>



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*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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