

Model Number  
601A62

# INDUSTRIAL ICP® ACCELEROMETER

Revision: B  
ECN #: 14824

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity (±20 %)	500 mV/g	51 mV/(m/s <sup>2</sup> )	[2]
Measurement Range	±10 g	± 98 m/s <sup>2</sup>	
Frequency Range (±5 %)	28 to 240000 cpm	0.47 to 4000 Hz	[3]
Frequency Range (±10 %)	20 to 300000 cpm	0.33 to 5000 Hz	
Frequency Range (±3 dB)	10 to 600000 cpm	0.17 to 10000 Hz	
Resonant Frequency	960 kcpm	16 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	35 µg	343 µm/s <sup>2</sup>	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤7 %	≤7 %	
<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)	≤10 sec	≤10 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	<150 ohms	<150 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	3 µg/√Hz	29.4 (µm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (100 Hz)	0.7 µg/√Hz	6.9 (µm/s <sup>2</sup> )/√Hz	[1]
Spectral Noise (1 kHz)	0.5 µg/√Hz	4.9 (µm/s <sup>2</sup> )/√Hz	[1]
Electrical Isolation (Case)	>10 <sup>8</sup> ohms	>10 <sup>8</sup> ohms	
<b>Physical</b>			
Size (Hex x Height)	7/8 in x 3.7 in	22.2 mm x 94 mm	
Weight (without cable)	2.8 oz	80 gm	
Mounting Thread	1/4-28 Female	Not Applicable	[5]
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	Armor Jacketed Cable	Armor Jacketed Cable	
Electrical Connection Position	Top	Top	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	[6]

**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.

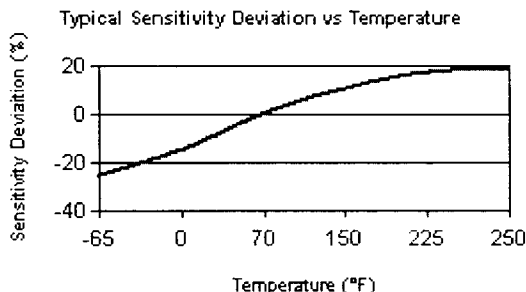
**M** - Metric Mount  
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40

**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] Twisted shielded pair.
- [7] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**

Model 081A40 Mounting Stud (1)  
Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)



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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