

Model Number 601A92	INDUSTRIAL ICP® ACCELEROMETER	Revision: B ECN #: 46701
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	ENGLISH	SI	
Performance			
Sensitivity(± 20 %)	500 mV/g	51 mV/(m/s ²)	[2]
Measurement Range	± 10 g	± 98 m/s ²	
Frequency Range(± 5 %)	28 to 240,000 cpm	0.47 to 4000 Hz	[3]
Frequency Range(± 10 %)	20 to 300,000 cpm	0.33 to 5000 Hz	
Frequency Range(± 3 dB)	10 to 600,000 cpm	0.17 to 10,000 Hz	
Resonant Frequency	960 kcpm	16 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	35 µg	343 µm/sec ²	[1]
Non-Linearity	± 1 %	± 1 %	[4]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5000 g pk	49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68, IP69K	IP68, IP69K	
Electrical			
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 Ohm	<150 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	3 µg/√Hz	29.4 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	0.7 µg/√Hz	6.9 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	0.5 µg/√Hz	4.9 (µm/sec ²)/√Hz	[1]
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	
Physical			
Size (Hex x Height)	7/8 in x 1.82 in	22.2 mm x 46.3 mm	
Weight	2.8 oz	80 gm	
Mounting Thread	1/4-28 Female	No Metric Equivalent	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	4-Pin, M12	4-Pin, M12	
Electrical Connection Position	Top	Top	

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.

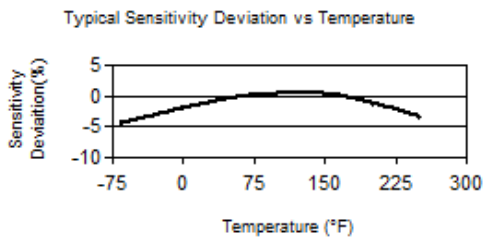
M - Metric Mount
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40

NOTES:

[1] Typical.
[2] Conversion Factor 1g = 9.81 m/s².
[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:

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



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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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