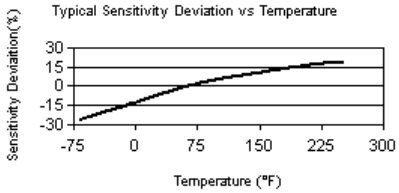
Model Number **601A11**	**LOW-COST INDUSTRIAL ICP® ACCELEROMETER**	Revision G ECN #: 14824

Performance	**ENGLISH**	**SI**	
Sensitivity (±20 %)	100 mV/g	10.2 mV/(m/s²)	[2]
Measurement Range	±50 g	±490 m/s²	
Frequency Range (±3 dB)	16 to 600000 cpm	0.27 to 10000 Hz	[3]
Resonant Frequency	960 kcpm	16 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	50 µg	491 µm/sec²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	5000 g pk	49050 m/s² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time (within 1% of bias)	≤4.0 sec	≤4.0 sec	
Discharge Time Constant	≥0.6 sec	≥0.6 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)	3.2 µg/√Hz	31.0 (µm/sec²/√Hz	[1]
Spectral Noise (100 Hz)	1.0 µg/√Hz	9.81 (µm/sec²/√Hz	[1]
Spectral Noise (1 kHz)	0.7 µg/√Hz	6.94 (µm/sec²/√Hz	[1]
Electrical Isolation (Case)	>10⁸ ohm	>10⁸ ohm	
Physical			
Size (Hex x Height)	7/8 in x 4.2 in	22 mm x 107 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	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Top	Top	
Cable Length	10 ft	3 m	
Cable Type	Polyurethane	Polyurethane	[6]

CE[7]



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.
ICP® is a registered trademark of PCB group, Inc.

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

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 Connections (Red)	Acceleration Output	Acceleration Output
Electrical Connections (Black)	Ground	Ground
Electrical Connections (White)	Temperature Output	Temperature Output
Electrical Connections (Green)	Ground	Ground

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

Supplied Accessories
081A40 Mounting Stud (1)

Entered: NJF	Engineer: NJF	Sales: EGY	Approved: JMF	Spec Number:
Date: 06/21/2002	Date: 06/21/2002	Date: 06/21/2002	Date: 06/26/2002	**5583**

IMI SENSORS
A PCB PIEZOTRONICS DIV.

3425 Walden Avenue
Depew, NY 14043
UNITED STATES
Phone: 716-684-0003
Fax: 716-684-3823
E-mail: imi@pcb.com
Web site: www.imi-sensors.com