

Model Number
602D12

INDUSTRIAL ICP® ACCELEROMETER

Revision A
ECN #: 38753

Performance

	ENGLISH	SI	
Sensitivity (±20 %)	500 mV/g	51.0 mV/(m/s ²)	[2]
Measurement Range	±10 g	±98 m/s ²	
Frequency Range (±3 dB)	30 to 180000 cpm	0.5 to 3000 Hz	[3]
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution	300 µg	2941 µm/sec ²	[1]
Non-Linearity	±1 %	±1 %	[4]
Transverse Sensitivity	≤7 %	≤7 %	

Environmental

Overload Limit (Shock)	5000 g pk	49050 m/s ² pk
Temperature Range	-65 to +250 °F	-54 to +121 °C
Enclosure Rating	IP68	IP68

Electrical

Settling Time (within 1% of bias)	≤5.0 sec	≤5.0 sec	
Discharge Time Constant	≥0.3 sec	≥0.3 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<500 Ohm	<500 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise (10 Hz)	8 µg/√Hz	78.5 (µm/sec ²)/√Hz	[1]
Spectral Noise (100 Hz)	3 µg/√Hz	29.4 (µm/sec ²)/√Hz	[1]
Spectral Noise (1 kHz)	3 µg/√Hz	29.4 (µm/sec ²)/√Hz	[1]
Electrical Isolation (Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	

Physical

Size (Length x Width x Height)	3.70 in x 0.74 in x 0.845 in	94.0 mm x 18.8 mm x 21.5 mm	
Weight	2.61 oz	74.0 gm	
Mounting Thread	1/4-28 Male	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	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Side	Side	
Cable Length	10.0 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	

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 M081A97 Mounting bolt, M6x1 (for Series M602C accelerometers) replaces Model 081A97

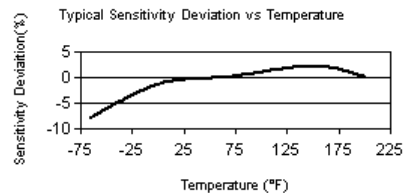
Notes

- [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] English mounting thread has no equivalent in Metric units.
- [6] See PCB Declaration of Conformance PS023 for details.

Supplied Accessories

081A97 Captive mounting bolt, 1/4-28 x 1.00" long, hex head (1)
ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

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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

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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