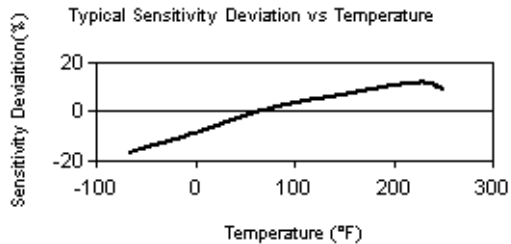


Model Number 602D01	PLATINUM LOW-COST INDUSTRIAL ICP® ACCELEROMETER			Revision: C ECN #: 53502
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	[1]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range	± 50 g	± 490 m/s ²		EX - Hazardous Area Approval- contact factory for specific approvals
Frequency Range(± 3 dB)	30 to 480,000 cpm	0.5 to 8,000 Hz	[2]	Hazardous Area Approval EEx nL IIC T4, -40 °C ≤ Ta ≤ 121 °C, II 3 G EEx nL IIC T4, -40 °C ≤ Ta ≤ 121 °C, II 3 G
Resonant Frequency	1,500 kcpm	25 kHz	[3]	Hazardous Area Approval EEx ia IIC T4, -40 °C ≤ Ta ≤ 121 °C, II 1 G EEx ia IIC T4, -40 °C ≤ Ta ≤ 121 °C, II 1 G
Broadband Resolution	350 µg	3,434 µm/sec ²	[3]	Hazardous Area Approval Cl I, Div I, Groups A, B, C, D; Cl II, Div I, Groups E, F, G; Cl III, Div I Cl I, Div I, Groups A, B, C, D; Cl II, Div I, Groups E, F, G; Cl III, Div I
Non-Linearity	± 1 %	± 1 %	[4]	Hazardous Area Approval Ex ia IIC T4, AExia IIC, T4 Cl I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4 Ex ia IIC T4, AExia IIC, T4 Cl I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4
Transverse Sensitivity	≤ 7 %	≤ 7 %		M - Metric Mount Supplied Accessory: Model M081B97 Captive Mounting Bolt, M6 x 1 x 25 mm long, hex head (1)
Environmental				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(Pin A) Acceleration Output Acceleration Output Electrical Connections(Pin B) Ground Ground Electrical Connections(Pin C) Temperature Output Temperature Output
Overload Limit(Shock)	5,000 g pk	49,050 m/s ² pk		
Temperature Range	-65 to +250 °F	-54 to +121 °C	[3]	
Temperature Response	See Graph	See Graph		
Enclosure Rating	IP68	IP68		
Electrical				
Settling Time(within 1% of bias)	≤ 2.0 sec	≤ 2.0 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	< 150 Ohm	< 150 Ohm		
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		
Spectral Noise(10 Hz)	8.0 µg/√Hz	78.5 (µm/sec ²)/√Hz	[3]	
Spectral Noise(100 Hz)	5 µg/√Hz	49.1 (µm/sec ²)/√Hz	[3]	
Spectral Noise(1 kHz)	4 µg/√Hz	39.2 (µm/sec ²)/√Hz	[3]	
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm		
Physical				
Size (Length x Height x Width)	1.65 in x 0.845 in x 0.74 in	41.9 mm x 21.5 mm x 18.8 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	2-Pin MIL-C-5015	2-Pin MIL-C-5015		
Electrical Connection Position	Side	Side		
				NOTES:
				[1] Conversion Factor 1g = 9.81 m/s ² .
				[2] The high frequency tolerance is accurate within ±10% of the specified frequency.
				[3] Typical.
				[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 or PS060 for details.
				SUPPLIED ACCESSORIES:
				Model 081B97 Captive Mounting Bolt 316SS - 7/16 HEX 1/4-28 UNF (1)
				Entered: ND Engineer: BAM Sales: JL Approved: NJF Spec Number:
				Date: 01/12/2023 Date: 01/12/2023 Date: 01/12/2023 Date: 01/12/2023 29429
				IMI SENSORS A PCB PIEZOTRONICS DIV. 3425 Walden Avenue, Depew, NY 14043 Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.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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