N	lodel Number
	602M 138

INDUSTRIAL ICP® ACCELEROMETER

Revision: A ECN #: 53502

Performance		ENGLISH	SI	
Sensitivity(± 10 %)		100 mV/g	$10.2 \text{ mV/(m/s}^2)$	[1]
Measurement Range		± 80 g	± 785 m/s²	
Frequency Range(± 3 dB)		24 to 480,000 cpm	0.4 to 8,000 Hz	[2]
Resonant Frequency		1,500 kcpm	25 kHz	[3]
Broadband Resolution		550 μg	5,395 μm/sec ²	[3]
Non-Linearity		± 1 %	± 1 %	[4]
Transverse Sensitivity		≤ 7 %	≤ 7 %	
Environmental				
Overload Limit(Shock)		5,000 g pk	49,050 m/s² pk	
Temperature Range		-65 to +250 °F	-54 to +121 ℃	
Temperature Response		See Graph	See Graph	[3]
Enclosure Rating		IP68	IP68	
Electrical				
Settling Time(within 1% of	f bias)	≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constant		≥ 0.4 sec	≥ 0.4 sec	
Excitation Voltage		24 to 28 VDC	24 to 28 VDC	
Constant Current Excitation	on	2 to 20 mA	2 to 20 mA	
Output Impedance		< 150 Ohm	< 150 Ohm	
Output Bias Voltage		10 to 14 VDC	10 to 14 VDC	
Spectral Noise(10 Hz)		10 μg/√Hz	98.1 (µm/sec ²)/√Hz	[3]
Spectral Noise(100 Hz)		7 μg/√Hz	68.7 (µm/sec ²)/√Hz	[3]
Spectral Noise(1 kHz)		7 μg/√Hz	68.7 (µm/sec ²)/√Hz	[3]
Electrical Isolation(Case)		> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical				
Size (Length x Height x Wid	dth)	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 Posit	tion	Side	Side	

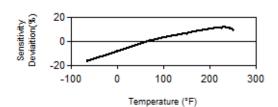
OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1] Conversion Factor $1g = 9.81 \text{ m/s}^2$.
- [2] The high frequency tolerance is accurate within $\pm 10\%$ 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.

CE



Typical Sensitivity Deviation vs Temperature

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: 01/18/2023	Date: 01/18/2023	Date: 01/18/2023	Date: 01/18/2023	67176



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 Piezotronics, Inc.