Model Number 601A01		PLATINUM LOW-	COST INDUST	RIAL I	CP® ACCELEROMETER
Performance		ENGLISH	SI		Optional Versions (Optional versions
Sensitivity (±20	%)	100 mV/g	10.2 mV/(m/s²)	[2]	for standard model except where note
Measurement Ra	nge	±50 g	±490 m/s <sup>2</sup>		M - Metric Mount
Frequency Range	e (±3 dB)	16 to 600000 cpm	0.27 to 10000 Hz	[3]	Supplied Accessory: Model M081A
Resonant Freque	ency	960 kcpm .	16 kHz	[1]	081A40
Broadband Reso	lution (1 to 10000 Hz)	50 μg	491 µm/sec <sup>2</sup>	[1]	TO - Temperature Output
Non-Linearity	,	±1 %	±1 %	[4]	Temperature Output Range
Transverse Sens	itivity	≤7 %	≤7 %		Temperature Scale Factor
Environmental					Electrical Connector
Overload Limit (	Shock)	5000 g pk	49050 m/s² pk		Electrical Connections (Pin A)
Temperature Rar	nge	-65 to +250 °F	-54 to +121 °C		
Enclosure Rating		IP68	IP68		Electrical Connections (Pin B)
Electrical					Electrical Connections (Pin C)
Settling Time (w	,	≤4.0 sec	≤4.0 sec		
Discharge Time (	Constant	≥0.6 sec	≥0.6 sec		
Excitation Voltage	е	18 to 28 VDC	18 to 28 VDC		Notes
Constant Current	Excitation	2 to 20 mA	2 to 20 mA		[1] Typical.
Output Impedance		<150 Ohm	<150 Ohm		[2] Conversion Factor 1g = 9.81
Output Bias Volta		8 to 12 VDC	8 to 12 VDC		[3] The high frequency toleranc
Spectral Noise (	(10 Hz)	3.2 μg/√Hz	31.0 (µm/sec²/√Hz	[1]	[4] Zero-based, least-squares, s
Spectral Noise (100 Hz)		1.0 μg/√Hz 0.7 μg/√Hz	9.81 (µm/sec²/√Hz	[1]	[5] 1/4-28 has no equivalent in
Spectral Noise (	Spectral Noise (1 kHz)		6.94 (µm/sec² /√Hz	[1]	[6] See PCB Declaration of Cor
Electrical Isolation	n (Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm		
Physical					Supplied Accessories
Size (Hex x Heig	ht)	7/8 in x 1.94 in	22 mm x 49.3 mm		081A40 Mounting Stud (1)
Weight		2.8 oz	80 gm		001A40 Modriting Stud (1)
Mounting Thread		1/4-28 Female	Not Applicable	[5]	
Mounting Torque		2 to 5 ft-lb	2.7 to 6.8 Nm		
Sensing Element		Ceramic	Ceramic		
Sensing Geometr		Shear	Shear		
Housing Material		Stainless Steel	Stainless Steel		
Sealing		Welded Hermetic	Welded Hermetic		
Electrical Connec		2-Pin MIL-C-5015	2-Pin MIL-C-5015		
Electrical Connec	CHOIT POSITION	Тор	Тор		

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision G

ECN #: 14824

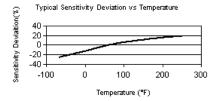
Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40

Temperature Output Range	+36 to +250 °F	+2 to +121 °C	
Temperature Scale Factor	5.56 mV/°F + 32	(+10 mV/°C)	
Electrical Connector	3-Pin	3-Pin	
Electrical Connections (Pin A)	Acceleration	Acceleration	
	Output	Output	
Electrical Connections (Pin B)	Ground	Ground	
Electrical Connections (Pin C)	Temperature	Temperature	
	Output	Output	

## Notes

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.
- [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**



All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without

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Entered: NJF	Engineer: NJF	Sales: EGY	Approved: JMF	Spec Number:
Date:	Date:	Date:	Date:	5436
06/21/2002	06/21/2002	06/21/2002	06/26/2002	



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