Model Number
601A01

INDUSTRIAL ICP ® ACCELEROMETER

Revision: F
ECN #: 13236

DYNAMIC PERFORMANCE	**ENGLISH**	**SI**	
Sensitivity (±20%)	100 mV/g	10,2 mV/(m/s^2)	[1]
Measurement Range	±50 g	±490 m/s^2	
Frequency Range (±3 dB)	16 - 600,000 cpm	0,27 Hz – 10 kHz	[2] [3]
Mounted Resonant Frequency	960 kcpm	16 kHz	[4]
Amplitude Linearity	±1%	±1%	[5]
Transverse Sensitivity	≤7%	≤7%	
ENVIRONMENTAL			
Shock Limit	5,000 g pk	49 050 m/s^2 pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[4]
Sealing	Welded Hermetic	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	2 to 20 mA	2 to 20 mA	
Output Impedance	<150 ohms	<150 ohms	
Output Bias	8 to 12 VDC	8 to 12 VDC	
Broadband Electrical Noise (1-10 kHz)	50 µg	491 µm/s^2	[4]
Spectral Noise: (10 Hz)	3.2 µg/√Hz	31,0 (µm/s^2)/√Hz	[4]
(100 Hz)	1.0 µg/√Hz	9,81 (µm/s^2)/√Hz	[4]
(1 kHz)	0.7 µg/√Hz	6,94 (µm/s^2)/√Hz	[4]
Case Isolation	>10^8 ohms	>10^8 ohms	
MECHANICAL			
Size (hex x height)	7/8 x 1.94 in	22 x 49,3 mm	
Weight	2.8 oz	80 gm	
Mounting Thread	1/4-28 UNF-2B	Not Applicable	[6]
Mounting Torque	2 to 5 ft-lb	2,7 to 6,8 N-m	
Sensing Element/Geometry	Ceramic/Shear	Ceramic/Shear	
Case Material	Stainless Steel	Stainless Steel	
Connector Type (2-pin)/Position	Mil-C-5015/Top	Mil-C-5015/Top	

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.

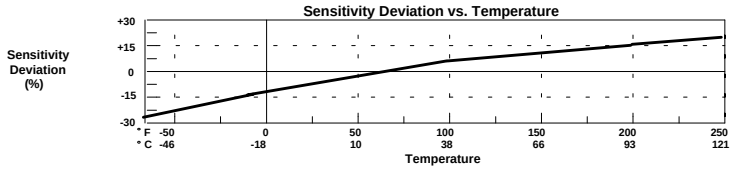
☐ **M** - Metric
Supplied Accessories
Model M081A61 Mounting Stud replaces Model 081A40

☐ **TO** - Temperature Output

Temperature Output		+36 to +250 °F	+2 to +121 °C
Temperature Scale Factor		[(0.18 x mV Reading) +32]/°F	+10 mV/°C
Connector Type (3-Pin):	A	Acceleration Output	Acceleration Output
	B	Ground	Ground
	C	Temperature Output	Temperature Output

NOTES:
[1] Conversion Factor 1g = 9,81 m/s^2.
[2] 1 Hz = 60 cpm (cycles per minute).
[3] The high frequency tolerance is accurate within ±10% of the specified frequency.
[4] Typical value.
[5] Zero-based, least-squares, straight line method.
[6] 1/4-28 has no equivalent in S.I. units.

SUPPLIED ACCESSORIES:
Model 081A40 Mounting Stud (1)
Single Point Calibration at 100 Hz



All specifications are at room temperature unless otherwise specified.

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In the interest of constant product improvement, we reserve the right to change specifications without notice.
Form DD030 Rev.E 2/20/98

Drawn:	Engineer:	Sales:	Approved:	Spec Number:
Date:	Date:	Date:	Date:	**5436**

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