

Model Number
326A02

INDUSTRIAL ICP® ACCELEROMETER SPECIFICATIONS

Revision: E
ECN #: 7075
SM 8/29/96

DYNAMIC

Sensitivity (±5%)	500 mV/g	51 mV/(m/s ²)	[1]
Measurement Range	±10 g	±98 m/s ²	
Frequency Range: (±5%)	30 - 120,000 cpm	30 - 120 000 cpm	[2] [3]
(±10%)	18 - 240,000 cpm	18 - 240 000 cpm	
(±3 dB)	12 - 360,000 cpm	12 - 360 000 cpm	
Mounted Resonant Frequency	840 kcpm	840 kcpm	[4]
Amplitude Linearity	±1%	±1%	[5]
Transverse Sensitivity	≤7%	≤7%	

ENVIRONMENTAL

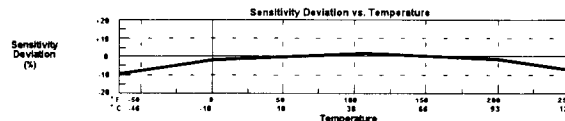
Shock Limit	5,000 g pk	49 050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	

ELECTRICAL

Settling Time	5 sec	5 sec	[6]
Discharge Time Constant	≥1.0 sec	≥1.0 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 ohms	<100 ohms	
Output Bias	8 to 14 VDC	8 to 14 VDC	
Broadband Electrical Noise (1-10 kHz)	10 µg	98 µm/s ²	
Spectral Noise: (1 Hz)	2.0 µg/√Hz	20 (µm/s ²)/√Hz	
(10 Hz)	0.3 µg/√Hz	2.9 (µm/s ²)/√Hz	
(100 Hz)	0.2 µg/√Hz	2.0 (µm/s ²)/√Hz	
(1 kHz)	0.1 µg/√Hz	1.0 (µm/s ²)/√Hz	
Case Isolation	>10 ⁸ ohms	>10 ⁸ ohms	
Protection	RFI/ESD	RFI/ESD	

MECHANICAL

Size (hex x height)	1 3/16 x 2 3/16 in	30,2 x 55,6 mm	
Weight	7.4 oz	210 gm	
Mounting Thread (female)	1/4-28 UNF	Not Applicable	[7]
Mounting Torque	2 to 5 ft-lb	2,7 to 6,8 N-m	
Sensing Element/Geometry	Ceramic/Shear	Ceramic/Shear	
Case Material	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Connector Type (2-pin)/Position	Mil-C-5015/Top	Mil-C-5015/Top	



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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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.

☐ LB - Low Bias

Output Bias	6 to 8 VDC	6 to 8 VDC
Excitation Voltage	12 to 28 VDC	12 to 28 VDC
Measurement Range	±7 g	±69 m/s ²

☐ M - Metric

Supplied Accessories: Model M081B20 Mounting Stud replaces Model 081A40

☐ TO - 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/s².
- [2] 1 Hz = 60 cpm (cycles per minute).
- [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [4] Mounted Resonance (nominal).
- [5] Zero based best straight line method.
- [6] Within 1% of the output bias.
- [7] 1/4-28 has no equivalent in S.I. units.

SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud (1)
Model 085A31 Protective/Thermal Jacket
Calibration Certificate (600 to 120,000 cpm)

Drawn: <i>[Signature]</i>	Engineer: <i>[Signature]</i>	Sales: <i>[Signature]</i>	Approved: <i>[Signature]</i>	Spec Number:
Date: 8/27/96	Date: 8/30/96	Date: 8/30/96	Date: 9/1/96	326-1020-80