

INDUSTRIAL ICP® ACCELEROMETER

Performance
Sensitivity (± 5%)
Measurement Range
Frequency Range (± 5%)
Frequency Range (± 10%)
Frequency Range (± 3 dB)
Resonant Frequency
Broadband Resolution (1 to 10,000 Hz)
Non-Linearity
Transverse Sensitivity
Environmental
Overload Limit (Shock)
Temperature Range
Temperature Response
Enclosure Rating
Electrical
Settling Time (within 1% of bias)
Discharge Time Constant
Excitation Voltage
Constant Current Excitation
Output Impedance
Output Bias Voltage
Spectral Noise (10 Hz)
Spectral Noise (100 Hz)
Spectral Noise (1 kHz)
Electrical Isolation (Case)

ENGLISH
500 mV/g
± 10 g
30 to 120,000 cpm
22 to 240,000 cpm
12 to 360,000 cpm
720 kcpm
20 µg
± 1 %
≤ 7 %
2500 g pk
-65 to +250 °F
See Graph
IP68
≤ 3.0 sec
≥ 1.0 sec
18 to 28 VDC
2 to 20 mA
<100 ohms
8 to 12 VDC
0.9 µg/√Hz
0.7 µg/√Hz
0.3 µg/√Hz
>10⁵ ohms
1 3/16 in x 2 3/16 in
7.0 oz
1/4-28 UNF
2 to 5 ft-lb
Ceramic
Shear
Stainless Steel
Welded Hermetic
2-Pin MIL-C-5015
Top

SI
51 mV/(m/s²)
± 98 m/s²
0.5 to 2000 Hz
0.37 to 4000 Hz
0.2 to 6000 Hz
12 kHz
196 µm/s²
± 1 %
≤ 7 %
24,525 m/s² pk
-54 to +121 °C
See Graph
IP68
≤ 3.0 sec
≥ 1.0 sec
18 to 28 VDC
2 to 20 mA
<100 ohms
8 to 12 VDC
8.8 (µm/s²)/√Hz
7.0 (µm/s²)/√Hz
3.1 (µm/s²)/√Hz
>10⁵ ohms
30.2 mm x 55.6 mm
199 gm
Not Applicable
2.7 to 6.8 N-m
Ceramic
Shear
Stainless Steel
Welded Hermetic
2-Pin MIL-C-5015
Top

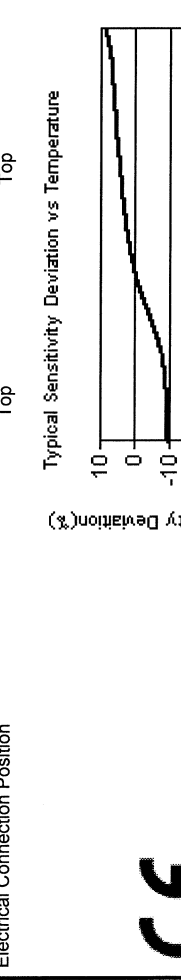
OPTIONAL VERSIONS
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
M - Metric Mount
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40

NOTES:
[1] Typical.
[2] Conversion Factor 1g = 9.81 m/s².
[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.

Physical
Size (Hex x Height)
Weight
Mounting Thread
Mounting Torque
Sensing Element
Sensing Geometry
Housing Material
Sealing
Electrical Connector
Electrical Connection Position

1 3/16 in x 2 3/16 in
7.0 oz
1/4-28 UNF
2 to 5 ft-lb
Ceramic
Shear
Stainless Steel
Welded Hermetic
2-Pin MIL-C-5015
Top

SUPPLIED ACCESSORIES:
Model 081A40 Mounting Stud (1)
Model 085A31 Protective Thermal Jacket (1)
Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)



Industrial ICP® Accelerometer	
Entered BS	Sales DA
Engineer: MOS	Approved: N.F.
Date: 6-18-04	Date: 6-18-04
	Spec Number: 18541

CE [6]

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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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