## Model Number Revision: NR INDUSTRIAL ICP® ACCELEROMETER 622B61 FCN # Performance **ENGLISH OPTIONAL VERSIONS** Sensitivity(± 5 %) 100 mV/g [2] 10.2 mV/(m/s<sup>2</sup>) Optional versions have identical specifications and accessories as listed for the standard model Measurement Range ± 50 g ± 490 m/s<sup>2</sup> except where noted below. More than one option may be used. Frequency Range(± 5 %) [3] 35 to 360,000 cpm 0.58 to 6000 Hz Frequency Range(± 10 %) M - Metric Mount 25 to 600,000 cpm 0.42 to 10,000 Hz Frequency Range(± 3 dB) Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) 12 to 900,000 cpm 0.2 to 15,000 Hz Resonant Frequency 1800 kcpm 30 kHz [1] Broadband Resolution(1 to 10,000 Hz) [1] 50 µg 490 µm/s<sup>2</sup> Non-Linearity [4] ±1% ±1% Transverse Sensitivity ≤ 5 % ≤ 5 % Environmental Overload Limit(Shock) 5000 g pk 49,050 m/s2 pk Temperature Range -65 to +250 °F -54 to +121 °C Temperature Response See Graph [1] See Graph NOTES: **Enclosure Rating IP68** IP68 [1] Typical Electrical [2] Conversion Factor 1g = 9.81 m/s2. Settling Time(within 1% of bias) ≤ 5.0 sec ≤ 5.0 sec [3] The high frequency tolerance is accurate within ±10% of the specified frequency. Discharge Time Constant ≥ 0.8 sec ≥ 0.8 sec [4] Zero-based, least-squares, straight line method. Excitation Voltage 18 to 28 VDC 18 to 28 VDC [5] 1/4-28 has no equivalent in S.I. units. Constant Current Excitation 2 to 20 mA 2 to 20 mA [6] Twisted shielded pair. Output Impedance [7] See PCB Declaration of Conformance PS023 for details. <100 ohm <100 ohm Output Bias Voltage 8 to 12 VDC 8 to 12 VDC Spectral Noise(10 Hz) 4.0 µg/√Hz [1] 39.2 (µm/s²)/√Hz Spectral Noise(100 Hz) 0.8 µg/√Hz 7.85 (µm/s²)/√Hz [1] Spectral Noise(1 kHz) 0.4 µg/√Hz 3.92 (µm/s²)/√Hz [1] Electrical Isolation >10<sup>8</sup> ohm $>10^{8}$ ohm Electrical Protection RFI/ESD RFI/ESD **Physical** Size (Hex x Height) 7/8 in x 2.06 in 22 mm x 52.3 mm Weight(without cable) 3.3 oz 94 gm Mounting Thread 1/4-28 Female No Metric Equivalent [5] Mounting Torque 2 to 5 ft-lb 2.7 to 6.8 N-m Sensing Element Ceramic Ceramic Sensing Geometry Shear Shear Housing Material Stainless Steel Stainless Steel Sealing Welded Hermetic Welded Hermetic Electrical Connector Integral Armored Cable Integral Armored Cable **Electrical Connection Position** Top Top Cable Length 10 ft 3 m [6] Cable Type Polyurethane Polyurethane Typical Sensitivity Deviation vs Temperature SUPPLIED ACCESSORIES: Model 081A40 Mounting Stud (1) 10 Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz)

## Sensitivity Deviaition(%) 0 -5 -65 -15 35 85 135 185 235 Temperature (°F)

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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to upper 5% frequency (1)

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