| Model Number<br>605B01                | INDUSTRIAL ICP® ACC  |                         |     |
|---------------------------------------|--|-------------------------|-----|
| Performance                           | ENGLISH  | SI                      |     |
| Sensitivity (± 20 %)                  | 100 mV/g   | 10.2 mV/(m/s²)          | [2] |
| Measurement Range                     | ± 50 g   | ± 490 m/s <sup>2</sup>  |     |
| requency Range (± 3 dB)               | 30 to 300000 cpm   | .5 to 5000 Hz           | [3] |
| Resonant Frequency                    | 600 kcpm   | 10 kHz                  | [1] |
| Broadband Resolution (1 to 10,000 Hz) | 350 µg   | 3434 μm/s²              | [1] |
| Non-Linearity                         | ± 1 %  | ±1%                     | [4] |
| ransverse 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  | See Graph               |     |
| Enclosure Rating                      | IP68   | IP68                    |     |
| Electrical                            |  |                         |     |
| Settling Time (within 1% of bias)     | ≤ 2.0 sec  | ≤ 2.0 sec               |     |
| Discharge Time Constant               | ≥ 0.3 sec  | ≥ 0.3 sec               |     |
| Excitation Voltage                    | 18 to 28 VDC   | 18 to 28 VDC            |     |
| Constant Current Excitation           | 2 to 20 mA   | 2 to 20 mA              |     |
| Output Impedance                      | <150 ohms  | <150 ohms               |     |
| Output Bias Voltage                   | 8 to 12 VDC  | 8 to 12 VDC             |     |
| Spectral Noise (10 Hz)                | 8 μg/√Hz   | 78.5 (μm/s²)/√Hz        | [1] |
| Spectral Noise (100 Hz)               | 5 μg/√Hz   | 49.1 (μm/s²)/√Hz        | [1] |
| Spectral Noise (1 kHz)                | 4 μg/√Hz   | 39.2 (μm/s²)/√Hz        | [1] |
| Electrical Isolation (Case)           | >10 <sup>8</sup> ohms  | >10 <sup>8</sup> ohms   |     |
| Physical                              | 10 0   |                         |     |
| Size (Diameter x Height)              | 1.38 in x 1.00 in  | 34.9 mm x 25.4 mm       |     |
| Veight (without cable)                | 3.9 oz   | 110.6 gm                |     |
| Mounting Thread                       | 1/4-28 UNF   | Not Applicable          | [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                  | 3-Pin MIL-C-5015   | 3-Pin MIL-C-5015        |     |
| Electrical Connection Position        | Side   | Side                    |     |
| Electrical Connections (Pin A)        | X axis   | X axis                  |     |
| Electrical Connections (Pin B)        | Z axis   | Z axis                  |     |
| Electrical Connections (Pin C)        | Ground   | Ground                  |     |
| accented common ( m c,                | 🙀 Typical Sensitivity De   | eviation vs Temperature |     |
|                                       |  |                         |     |
|                                       | of the visition of the visitio |                         |     |

ROMETER

# **OPTIONAL VERSIONS**

Revision: NR

ECN#:

anal versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

#### Metric Mount

olied Accessory: Model M081A68 Captive mounting bolt M6 x 1 (1) replaces Model 081A68

### ES:

- ypical.
- Conversion Factor 1g = 9.81 m/s².
  The high frequency tolerance is accurate within ±10% of the specified frequency.
  Cero-based, least-squares, straight line method.
- /4-28 has no equivalent in S.I. units.
- ee PCB Declaration of Conformance PS023 for details.

## PPLIED ACCESSORIES:

el 081A68 Captive mounting bolt 1/4-28 x .90" (1) el ACS-2T NIST Traceable Single Point Calibration at 100 Hz for Each Axis (1)

### strial ICP® Accelerometer

| Entered: Mas | Engineer:     | Sales: 🕽 🛦    | Approved: p., | Spec Number: |
|--------------|---------------|---------------|---------------|--------------|
| Date: 7/2/03 | Date: 7/2//03 | Date: 7-25-03 | Date: 1 halo  | 23462        |



Phone: 800-959-4464 Fax: 716-684-3823 E-Mail: imi@pcb.com



-50 + 85 135 185 235 -65 -15 35 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. ICP® is a registered trademark of PCB Group, Inc.