

Model Number
603C00

LOW-COST INDUSTRIAL ICP® ACCELEROMETER

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.

EX - Hazardous Area Approval- contact factory for specific approvals
Hazardous Area Approval EEx ia IIC T4, -40°C≤Tas121° EEx ia IIC T4, -40°C≤Tas121°
C, II 1 G
C, II 1 G
C, II 1 G
C, II 1 G

CI I, Div 1, Groups A, B, C, D; CI
II, Div 1, Groups E, F, G; CI III, Div I

Exia IIC T4, AExia IIC, T4
CI I, Div 2, Groups A, B, C, D;
ExnL IIC T4, AExnA IIC T4
EEx nL IIC T4, -40°C≤Tas121°
C, II 3 G

M - Metric Mount
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)

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 or PS060 for details.

ENGLISH
Sensitivity (± 20 %) 1.02 mV/(m/s²) ± 4905 m/s² [2]
Measurement Range ± 500 g [3]
Frequency Range (± 3 dB) 30 to 600,000 opm
Resonant Frequency 1500 kcpm [1]
Broadband Resolution (1 to 10,000 Hz) 2000 µg
Non-Linearity ± 1 % [1]
± 7 % [4]
Environmental
Overload Limit(Shock) 5000 g pk
Temperature Range -65 to +250 °F
Temperature Response See Graph
Enclosure Rating IP68 [1]

Electrical
Settling Time(within 1% of bias) ≤ 3.0 sec
Discharge Time Constant ≥ 0.4 sec
Excitation Voltage 18 to 28 VDC
Constant Current Excitation 2 to 20 mA
Output Impedance <150 ohm
Output Bias Voltage 8 to 12 VDC
Spectral Noise(10 Hz) 85 µg/√Hz [1]
(100 Hz) 20 µg/√Hz [1]
(1 kHz) 5 µg/√Hz [1]
Electrical Isolation(Case) >10⁸ ohm

Physical
Size (Hex x Height) 11/16 in x 1.65 in
Weight 1.8 oz
Mounting Thread 1/4-28 Female [5]
Mounting Torque 2 to 5 ft-lb
Sensing Element Ceramic
Sensing Geometry Shear
Housing Material Stainless Steel
Sealing Welded Hermetic
Electrical Connector 2-Pin MIL-C-5015
Electrical Connection Position Top

SUPPLIED ACCESSORIES:
Model 081A40 Mounting Stud (1)

Typical Sensitivity Deviation vs Temperature

Engineer: JAA Date: 5-27-08
Sales: JG Date: 5-18-05
Approved: EB Date: 5-18-09
Spec Number: 20788

IMI SENSORS
A PCB PIEZOTRONICS DIV.
3425 Walden Avenue, Depew, NY 14043

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

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.