

Model Number
602M42

INDUSTRIAL ICPC® ACCELEROMETER

Revision: NR
ECN #:

Performance

Sensitivity (± 20 %) [2]
Measurement Range [3]
Frequency Range (± 3 dB) [1]
Resonant Frequency [1]
Broadband Resolution (1 to 10,000 Hz) [4]
Non-Linearity
Transverse Sensitivity

ENGLISH
100 mV/g
± 50 g
30 to 480,000 cpm
1500 kcpm
350 µg
± 1 %
≤ 7 %
5000 g pk
-65 to +250 °F
See Graph
IP68

SI
10.2 mV/(m/s²)
± 490 m/s²
0.5 to 8000 Hz
25 kHz
3434 µm/s²
± 1 %
≤ 7 %
49,050 m/s² pk
-54 to +121 °C
See Graph
IP68

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.

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

≤ 2.0 sec
≥ 0.3 sec
18 to 28 VDC
2 to 20 mA
<150 ohm
8 to 12 VDC
8 µg/√Hz
5 µg/√Hz
4 µg/√Hz
>10⁸ ohm

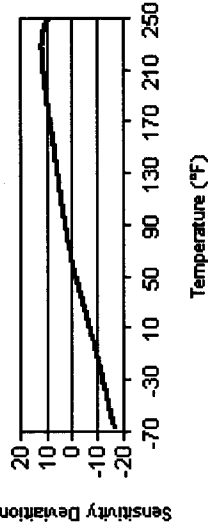
NOTES:

- [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] Metric mounting thread has no equivalent in English units.
- [6] See PCB Declaration of Conformance PS023 for details.

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

2.04 in x 1.00 in x 1.00 in
5.36 oz
No English Equivalent
2 to 5 ft-lb
Ceramic
Shear
Stainless Steel
Welded Hermetic
2-Pin MIL-C-5015
Side
51.8 mm x 25.4 mm x 25.4 mm
152 gm
M8 x 1.25
2.7 to 6.8 N-m
Ceramic
Shear
Stainless Steel
Welded Hermetic
2-Pin MIL-C-5015
Side

Typical Sensitivity Deviation vs Temperature



[6]

SUPPLIED ACCESSORIES:
Model 081M171 Thru bolt M8 x 1.25 (1)
Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

Entered: <i>RA</i>	Engineer: <i>RA</i>	Sales: <i>RA</i>	Approved: <i>RA</i>	Spec Number:
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IMI SENSORS
A PCB PIEZOTRONICS DIV.
3425 Waldben Avenue, Depew, NY 14043

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