

Model Number
603C02

LOW-COST INDUSTRIAL ICP® ACCELEROMETER

Revision: B
ECN #: 38753

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
Environmental
 Overload Limit(Shock)
 Temperature Range [1]
 Temperature Response
 Enclosure Rating

ENGLISH

500 mV/g
 ± 10 g
 30 to 180,000 cpm
 1500 kcpm
 300 µg
 ± 1 %
 ≤ 7 %
 5000 g pk
 -65 to +200 °F
 See Graph
 IP68

SI

51.0 mV/(m/s²) [2]
 ± 98 m/s²
 0.5 to 3000 Hz [3]
 25 kHz [1]
 2943 µm/sec² [4]
 ± 1 %
 ≤ 7 %
 49,050 m/s² pk
 -54 to +93 °C
 See Graph
 IP68

Electrical

Settling Time(within 1% of bias)
 Discharge Time Constant
 Excitation Voltage
 Constant Current Excitation
 Output Impedance
 Output Bias Voltage
 Spectral Noise(10 Hz)
 (100 Hz)
 (1 kHz)
 Electrical Isolation(Case)
Physical
 Size (Hex x Height)
 Weight
 Mounting Thread
 Mounting Torque
 Sensing Element
 Sensing Geometry
 Housing Material
 Sealing
 Electrical Connector
 Electrical Connection Position

≤ 5.0 sec
 ≥ 0.3 sec
 18 to 28 VDC
 2 to 20 mA
 <500 Ohm
 8 to 12 VDC
 8 µg/√Hz
 3 µg/√Hz
 3 µg/√Hz
 >10⁸ Ohm
 11/16 in x 1.65 in
 1.8 oz
 1/4-28 Female
 2 to 5 ft-lb
 Ceramic
 Shear
 Stainless Steel
 Welded Hermetic
 2-Pin MIL-C-5015
 Top

≤ 5.0 sec
 ≥ 0.3 sec
 18 to 28 VDC
 2 to 20 mA
 <500 Ohm
 8 to 12 VDC
 78.5 (µm/sec²)/√Hz
 29.4 (µm/sec²)/√Hz
 29.4 (µm/sec²)/√Hz
 >10⁸ Ohm
 18 mm x 42.2 mm
 51 gm
 No Metric Equivalent
 2.7 to 6.8 Nm
 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.
EX - Hazardous Area Approval- contact factory for specific approvals
 Hazardous Area Approval
 ExnL IIC T4, AExnA IIC T4
 EEx nL IIC T4, -40°
 C5Tas121°C, II 1 G
 Cl I, Div I, Groups A, B, C, D;
 Cl II, Div I, Groups E, F, G; Cl III, Div I
 Exia IIC T4, AExia IIC, T4
 EEx nL IIC T4, -40°
 C5Tas121°C, II 3 G

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

TO - Temperature Output
 Temperature Output Range
 Temperature Scale Factor
 Electrical Connector
 Electrical Connections(Pin A)
 (Pin B)
 (Pin C)
 Size - Height
 Weight

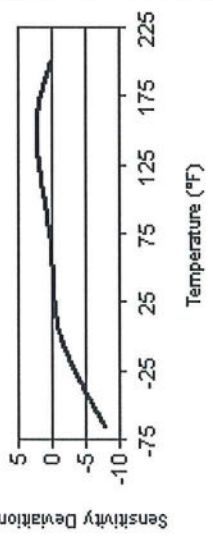
+36 to +200 °F
 5.56 mV/°F + 32
 3-Pin MIL-C-5015
 Acceleration Output
 Ground
 Temperature Output
 1.86 in
 2.0 oz
 +2 to +93 °C
 +10 mV/°C
 3-Pin MIL-C-5015
 Acceleration Output
 Ground
 Temperature Output
 47.2
 56.7

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.



Typical Sensitivity Deviation vs Temperature



SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud
 Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

Entered: JST	Engineer: JST	Sales: MRS	Approved: JST	Spec Number:
Date: 3-15-12	Date: 3-9-12	Date: 3-9-12	Date: 3-9-12	38367

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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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