

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

Performance
 Measurement Range
 Output
 Frequency Range(± 3 dB)
 Broadband Resolution
 Non-Linearity
Environmental
 Temperature Range
Electrical
 Excitation Voltage
 Load Resistance
 Settling Time(within 2% of value)
 Electrical Isolation(Case)

ENGLISH
 0.0 to 5 g rms
 4-20 mA
 180 to 600,000 cpm
 0.025 g rms
 ± 1 %
 -40 to 185 °F
 12 to 30 VDC
 50(Vs-12) ohm
 <15 sec
 >10⁸ ohm
 1.0 in. x 2.6 in
 4.7 oz
 1/4-28 UNF
 3 to 5 ft-lb
 Ceramic
 Shear
 Stainless Steel
 Welded Hermetic
 2-Pin MIL-C-5015
 Top
 4-20 mA Pos (+)
 4-20 mA Neg (-)

SI
 0.0 to 49 m/s² rms
 4-20 mA
 3 to 10 kHz
 0.24 m/s² rms
 ± 1 %
 -40 to 85 °C
 12 to 30 VDC
 50(Vs-12) ohm
 <15 sec
 >10⁸ ohm
 25.4 mm x 66 mm
 131 gm
 Not Applicable
 4 to 7 N-m
 Ceramic
 Shear
 Stainless Steel
 Welded Hermetic
 2-Pin MIL-C-5015
 Top
 4-20 mA Pos (+)
 4-20 mA Neg (-)

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 - ATEX or ATEX and CSA Hazardous Area Approval EEx ia IIC T4, -40°C<Tas80° EEx ia IIC T4, -40°C<Tas80°
 Hazardous Area Approval C, II 1 G
Hazardous Area Approval EEx nL IIC T4, -40°C<Tas80° EEx nL IIC T4, -40°C<Tas80°
 Hazardous Area Approval C, II 1 G
Hazardous Area Approval DIV I, CL I, II, III, GRPS A-G, DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4 C, II 3 G
Hazardous Area Approval DIV II, CL I, GRPS A-D, ExnL, DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4

M - Metric Mount
 Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40
RV - Buffered Analog Signal Output - 100 mV/g (±20%)
 Electrical Connector 3-Pin MIL-C-5015 3-Pin MIL-C-5015
 Electrical Connections(Pin A) 4-20 mA Pos (+) 4-20 mA Pos (+)
 Electrical Connections(Pin B) 4-20 mA Neg/Signal Output 4-20 mA Neg/Signal Output
 Electrical Connections(Pin C) Signal Output Pos Neg Signal Output Pos

NOTES:
 [1] Conversion Factor 1g = 9.81 m/s².
 [2] Current will fluctuate at frequencies below 5 Hz.
 [3] 1Hz = 60 cpm (cycles per minute).
 [4] Typical.
 [5] See PCB Declaration of Conformance PS039 or PS053 for details.

SUPPLIED ACCESSORIES:
 Model 081A40 Mounting Stud (1)
 Model ICS-4 NIST-traceable single-axis amplitude response calibration from 0 cpm (0 Hz) to upper 10% frequency for 4 - 20 mA output vibration sensor (1)

Entered: <i>[Signature]</i>	Engineer: <i>MTI</i>	Sales: <i>[Signature]</i>	Approved: <i>NT</i>	Spec Number:
Date: 4-9-07	Date: 4/9/07	Date: 4/9/07	Date: 4/9/07	27724

IMI SENSORS
 A PCB PIEZOTRONICS DIV.
 3425 Walden 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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