

# LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

**Performance**  
Measurement Range  
Output  
Frequency Range ( $\pm 10\%$ )  
Broadband Resolution  
Non-Linearity  
**Environmental**  
Temperature Range  
**Electrical**  
Excitation Voltage  
Load Resistance  
Settling Time (within 2% of value)  
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  
Electrical Connections (Pin A)  
Electrical Connections (Pin B)

**ENGLISH**  
0.0 to 10 g rms  
4-20 mA  
180 to 300,000 cpm  
0.05 g rms  
 $\pm 1\%$   
-40 to 185 °F  
12 to 30 VDC  
50(Vs-12) ohm  
<15 sec  
>10<sup>8</sup> 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 98.1 m/s<sup>2</sup> rms  
4-20 mA  
3 to 5 kHz  
0.49 m/s<sup>2</sup> rms  
 $\pm 1\%$   
-40 to 85 °C  
12 to 30 VDC  
50(Vs-12) ohm  
<15 sec  
>10<sup>8</sup> 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

[1]  
[2][3]  
[4]

**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.  
**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 ( $\pm 20\%$ )  
Electrical Connector 3-Pin MIL-C-5015  
Electrical Connections (Pin A) 4-20 mA Pos  
Electrical Connections (Pin B) 4-20 mA Neg/Signal Output  
Electrical Connections (Pin C) Signal Output Pos  
Signal Output Pos  
Neg

**NOTES:**  
[1] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.  
[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 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)

**CE** [5]

*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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Entered: <b>BLS</b>	Engineer: <b>MDP</b>	Sales: <b>EGY</b>	Approved: <b>[Signature]</b>	Spec Number:
Date: <b>1/12/05</b>	Date: <b>1/12/05</b>	Date: <b>1/15/05</b>	Date: <b>1/12/05</b>	<b>28859</b>

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