

Performance	ENGLISH	SI	
Measurement Range (Vibration)	0.0 to 2.0 in/sec pk	0.0 to 50.8 mm/s pk	[2]
Measurement Range (Temperature)	-40 to 257 °F	-40 to 125 °C	[1]
Output	4-20 mA	4-20 mA	
Frequency Range (±10 %)	180 to 60000 cpm	3 to 1 kHz	[3][4]
Broadband Resolution	0.01 in/sec pk	0.26 mm/s pk	[5]
Non-Linearity	1 %	1 %	
Environmental			
Temperature Range	-40 to 185 °F	-40 to 85 °C	[1]
Electrical			
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Settling Time	<15 sec	<15 sec	
Electrical Isolation (Case)	>10 <sup>9</sup> Ohm	>10 <sup>9</sup> Ohm	
Physical			
Size (Hex x Height)	1.00 in x 4.2 in	25.4 mm x 107 mm	
Weight (without cable)	4.7 oz	131 gm	
Mounting Thread	1/4-28 UNF	1/4-28 UNF	
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Integral Armored Cable	Integral Armored Cable	
Electrical Connection Position	Top	Top	
Cable Termination	Pigtail Ends	Pigtail Ends	
Electrical Connections (Red)	Vibration, 4-20 mA Pos.	Vibration, 4-20 mA Pos.	
Electrical Connections (Black)	Vibration, 4-20 mA Neg.	Vibration, 4-20 mA Neg.	
Electrical Connections (White)	Temperature, 4-20 mA Pos.	Temperature, 4-20 mA Pos.	
Electrical Connections (Green)	Temperature, 4-20 mA Neg.	Temperature, 4-20 mA Neg.	
Cable Length	10 ft	3 m	
Cable Type	Polyurethane	Polyurethane	

**Optional Versions** (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

**EX** - Hazardous Area Approval- contact factory for specific approvals

Hazardous Area Approval	DIV II, CL I, GRPS	DIV II, CL I, GRPS
	A-D, ExnL,	A-D, ExnL,
	AExnA, IIC T4	AExnA, IIC T4
Hazardous Area Approval	EEx ia IIC T4, -	EEx ia IIC T4, -
	40°C≤Ta≤80°C, II 1	40°C≤Ta≤80°C, II 1
	G	G
Hazardous Area Approval	EEx nL IIC T4, -	EEx nL IIC T4, -
	40°C≤Ta≤80°C, II 3	40°C≤Ta≤80°C, II 3
	G	G
Hazardous Area Approval	DIV I, CL I, II, III,	DIV I, CL I, II, III,
	GRPS A-G, Exia,	GRPS A-G, Exia,
	AExia, IIC T4	AExia, IIC T4

**M** - Metric Mount  
Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model 081A40

**Notes**

[1] Vibration 4-20mA output accuracy is limited to 185°F (85°C)  
 [2] Conversion Factor 1 in/sec = 0.0254 m/sec.  
 [3] 1Hz = 60 cpm (cycles per minute).  
 [4] Current will fluctuate at frequencies below 5 Hz.  
 [5] Typical value.  
 [6] See PCB Declaration of Conformance PS039 or PS053 for details.

**Supplied Accessories**  
 081A40 Mounting Stud (1)  
 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 ( )

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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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