

Model Number 646B02		4-20 MA OUTPUT ACCELEROMETER		Revision: F ECN #: 56897	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range		0.0 to 10 g rms	0.0 to 98.1 m/s ² rms	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Output		4-20 mA	4-20 mA	EX - Hazardous Area Approval- contact factory for specific approvals	
Frequency Range(± 3 dB)		180 to 600 kcpm	3 to 10 kHz	Hazardous Area Approval	
Broadband Resolution		0.05 g rms	0.49 m/s ² rms	EEx ia IIC T4, -40 °C ≤ Ta ≤ 80 °C, II 1 G	
Non-Linearity		± 1 %	± 1 %	EEx nL IIC T4, -40 °C ≤ Ta ≤ 80 °C, II 3 G	
Environmental				Hazardous Area Approval	
Temperature Range		-40 to 185 °F	-40 to 85 °C	DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4	
Enclosure Rating		IP68	IP68	Hazardous Area Approval	
Electrical				DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4	
Excitation Voltage		12 to 30 VDC	12 to 30 VDC	M - Metric Mount	
Load Resistance		50(Vs-12) Ohm	50(Vs-12) Ohm	Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40	
Settling Time(within 2% of value)		< 15 sec	< 15 sec	RV - Buffered Analog Signal Output - 100 mV/g (±20%)	
Electrical Isolation(Case)		> 10 ⁸ Ohm	> 10 ⁸ Ohm	Electrical Connector	
Physical				Electrical Connections	
Size (Hex x Height)		1.0 in x 2.6 in	25.4 mm x 66 mm	3-Pin MIL-C-5015	
Weight		4.7 oz	131 gm	4-20 mA Neg/Signal Output	
Mounting Thread		1/4-28 UNF	No Metric Equivalent	Neg	
Mounting Torque		3 to 5 ft-lb	4 to 7 Nm	Signal Output Pos	
Sensing Element		Ceramic	Ceramic		
Sensing Geometry		Shear	Shear		
Housing Material		Stainless Steel	Stainless Steel		
Sealing		Welded Hermetic	Welded Hermetic		
Electrical Connector		2-Pin MIL-C-5015	2-Pin MIL-C-5015		
Electrical Connection Position		Top	Top		
Electrical Connections(Pin A)		4-20 mA Pos (+)	4-20 mA Pos (+)		
Electrical Connections(Pin B)		4-20 mA Neg (-)	4-20 mA Neg (-)		
NOTES:					
[1]Conversion Factor 1g = 9.81 m/s ² .					
[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.					
[6]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.					
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: ND		Engineer: gs		Sales: JL	
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