

	ENGLISH	SI	
Performance			
RMS Velocity Frequency Range(± 3 dB)	4 to 2,300 Hz	4 to 2,300 Hz	[1]
Velocity HP Filter	2 Hz, 1-pole RC	2 Hz, 1-pole RC	
Velocity LP Filter	2400 Hz, 3-pole Chebyshev	2400 Hz, 3-pole Chebyshev	
Velocity Resolution	0.001 ips rms	0.025 mm/s rms	
Velocity Range	4 ips rms	101.6 mm/s rms	
RMS Acceleration Frequency Range(± 3 dB)	2,200 to 15,000 Hz	2,200 to 15,000 Hz	[1]
Acceleration HP Filter	2000 Hz, 4-pole Chebyshev	2000 Hz, 4-pole Chebyshev	
Acceleration LP Filter	15k Hz, 3-pole Chebyshev + 1-pole RC	15k Hz, 3-pole Chebyshev + 1-pole RC	
Acceleration Resolution	0.007 g pk	0.069 m/s ² pk	[2]
Acceleration Range	20 g pk	196.2 m/s ² pk	[2]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Velocity Linearity(0-1 ips rms)	< 1 %	< 1 %	[3]
Velocity Linearity(0-4 ips rms)	< 8.5 %	< 8.5 %	[3]
Acceleration Linearity	< 1 %	< 1 %	[3]
Environmental			
Overload Limit(shock)	1,000 g pk	9,810 m/s ² pk	
Temperature Range	-4 to +158 °F	-20 to +70 °C	
Enclosure Rating	IP66	IP66	
Transmission Range	250 ft to >1 mile radius, installation dependent	250 ft to >1 mile radius, installation dependent	[4]
Electrical			
RMS Velocity	Analog Integration, FFT Sum	Analog Integration, FFT Sum	
RMS Acceleration	3.7 Sec time sample @ 61.4 kHz sample rate	3.7 Sec time sample @ 61.4 kHz sample rate	
Filtered Crest Factor(max)	16	16	
Frequency Band	916 MHz ISM Band	916 MHz ISM Band	
Number of RF Bands	12	12	
Maximum Power(ERP)	0.75 mW	0.75 mW	
RF Data Rate	20 bps	20 bps	
ADC/dynamic range	16 bit/>90db	16 bit/>90db	
Battery Life(room temperature)	~1 year @ 3-measurements per day	~1 year @ 3-measurements per day	
Electrical Isolation	> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical			
Power	7.2V Lithium Battery Pack	7.2V Lithium Battery Pack	
Size (Hex x Height)	1.375 in x 4.40 in	34.93 mm x 111.8 mm	
Sensing Element	Ceramic	Ceramic	
Weight	1 lb	454 g	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Housing Diameter	1.66 in	42.0 mm	
Mounting	1/4" - 28	1/4" - 28	[5]
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm	
Sealing	O-Ring	O-Ring	
Sensor Activation/Deactivation	Magnet Switch	Magnet Switch	

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. [6]		
CS - Canadian Standards Association Approved Intrinsically Safe		
M - Metric Mount Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)		
TO - Temperature Output		
Battery Life	~10 Months	~10 Months

NOTES:

[1] Upper frequency tolerance is ± 10% of the specified value.
 [2] Conversion Factor 1g = 9.81 m/s².
 [3] Zero-based, least-squares, straight line method.
 [4] Typical.
 [5] 1/4-28 has no equivalent in S.I. units.
 [6] CL 1, Div 2, Groups A, B, C, D, T5

SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud (1)
 Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)



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.

Entered: ND	Engineer: gs	Sales: JL	Approved: BAM	Spec Number:
Date: 03/15/2023	Date: 03/15/2023	Date: 03/15/2023	Date: 03/15/2023	42657

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