Model Number 649A04

## PROGRAMMABLE LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

Revision B ECN #: 42229

			SENS	UK				
Performance		ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed			
Measurement Range (V	elocity)	0.5 to 3 in/sec pk	12.7 to 76.2 mm/s pk	[1][2][3] 4]	[[for standard model except where noted below. More than one option maybe used.)  M - Metric Mount			
Measurement Range (A	cceleration)	1 to 10 g pk	9.8 to 98.1 m/s <sup>2</sup> pk	[5][1][4	Supplied Accessory: Model M081A61 Mounting stud, 1/4-28 to M6 x 1 replaces Model			
Measurement Range (D	isplacement)	4 to 20 mil pk - pk	0.1 to 0.5 mm pk - pk	[1][6][4	] 081A40			
Output (±5 %)		4 mA	4 mA		RV - Buffered Analog Signal Output - 100 mV/g (±20%)			
Output (±10 %)		20 mA	20 mA		Electrical Connector 3-Pin MIL-C-5015 3-Pin MIL-C-5015			
Frequency Range (-6 dE	3)	180 to 60000 cpm	3 to 1000 Hz	[7][8][9] 4]	Electrical Connections (Pin B) 4-20 mA 4-20 mA			
Frequency Range		180 to 300000 cpm	3 to 5000 Hz	[7][8][4	] Neg/Signal Output Neg/Signal Output			
Frequency Range		180 to 600000 cpm	3 to 10000 Hz	[7][8][4	] Neg Neg			
Frequency Range		600 to 60000 cpm	10 to 1000 Hz	[7][8][4	] Electrical Connections (Pin C) Signal Output Pos Signal Output Pos			
Frequency Range		600 to 300000 cpm	10 to 5000 Hz	[7][8][4	]			
Frequency Range		600 to 600000 cpm	10 to 10000 Hz	[7][8][4	] Notes			
Environmental					[1] FS - Full Scale.			
Temperature Range		-40 to +185 °F	-40 to +85 °C		[2] Factory set, 1 in/sec peak.			
Electrical					[3] Conversion Factor 1 in/sec = 25.4 mm/sec.			
Excitation Voltage		15 to 30 VDC	15 to 30 VDC		[4] USB Programmable with 600A21 kit.			
Settling Time (within 2% of value)		<30 sec	<30 sec		[5] Conversion Factor 1g = 9.81 m/s².			
Electrical Isolation (Case)		>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm		[6] Conversion Factor 1 mil = 0.0254 mm			
Physical					[7] 1Hz = 60 cpm (cycles per minute).			
Size (Hex x Height)		1.0 in x 2.6 in	25.4 mm x 66 mm		[8] Current will fluctuate at frequencies below 5 Hz.			
Weight		4.6 oz	129 gm	[10]	[9] Factory Set			
Mounting Thread		1/4-28 UNF	No Metric Equivalent		[10] Typical.			
Mounting Torque		3 to 5 ft-lb	4 to 7 Nm		[11] See PCB Declaration of Conformance PS124 for details.			
Sensing Element		Ceramic	Ceramic Shear					
Sensing Geometry		Shear Stainless Steel	Snear Stainless Steel		Countied Assessment			
Housing Material Sealing		Welded Hermetic	Welded Hermetic		Supplied Accessories			
Electrical Connector		2-Pin MIL-C-5015	2-Pin MIL-C-5015		081A40 Mounting Stud (1)			
Electrical Connection Pos	eition	Z-PIII WILL-C-5015	Z-PIII MIL-C-3013					
Electrical Connections (I		4-20 mA Pos (+)	4-20 mA Pos (+)					
Electrical Connections (I	,	4-20 mA Neg (-)	4-20 mA Neg (-)					

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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

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