

Model Number 601A92		INDUSTRIAL ICP® ACCELEROMETER			Revision: B ECN #: 46701	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 20 %)		500 mV/g	51 mV/(m/s²)	[2]	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	
Measurement Range		± 10 g	± 98 m/s²			
Frequency Range(± 5 %)		28 to 240,000 cpm	0.47 to 4000 Hz	[3]		
Frequency Range(± 10 %)		20 to 300,000 cpm	0.33 to 5000 Hz			
Frequency Range(± 3 dB)		10 to 600,000 cpm	0.17 to 10,000 Hz			
Resonant Frequency		960 kcpm	16 kHz	[1]		
Broadband Resolution(1 to 10,000 Hz)		35 µg	343 µm/sec²	[1]		
Non-Linearity		± 1 %	± 1 %	[4]		
Transverse Sensitivity		≤ 7 %	≤ 7 %			
Environmental						
Overload Limit(Shock)		5000 g pk	49,050 m/s² pk			
Temperature Range		-65 to +250 °F	-54 to +121 °C			
Temperature Response		See Graph	See Graph	[1]		
Enclosure Rating		IP68, IP69K	IP68, IP69K			
Electrical						
Settling Time(within 1% of bias)		≤ 10 sec	≤ 10 sec			
Discharge Time Constant		≥ 1.0 sec	≥ 1.0 sec			
Excitation Voltage		18 to 28 VDC	18 to 28 VDC			
Constant Current Excitation		2 to 20 mA	2 to 20 mA			
Output Impedance		<150 Ohm	<150 Ohm			
Output Bias Voltage		8 to 12 VDC	8 to 12 VDC			
Spectral Noise(10 Hz)		3 µg/√Hz	29.4 (µm/sec²)/√Hz	[1]		
Spectral Noise(100 Hz)		0.7 µg/√Hz	6.9 (µm/sec²)/√Hz	[1]		
Spectral Noise(1 kHz)		0.5 µg/√Hz	4.9 (µm/sec²)/√Hz	[1]		
Electrical Isolation(Case)		>10⁸ Ohm	>10⁸ Ohm			
Physical						
Size (Hex x Height)		7/8 in x 1.82 in	22.2 mm x 46.3 mm			
Weight		2.8 oz	80 gm			
Mounting Thread		1/4-28 Female	No Metric Equivalent	[5]		
Mounting Torque		2 to 5 ft-lb	2.7 to 6.8 Nm			
Sensing Element		Ceramic	Ceramic			
Sensing Geometry		Shear	Shear			
Housing Material		316L Stainless Steel	316L Stainless Steel		SUPPLIED ACCESSORIES: Model 081A40 Mounting Stud (1) Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)	
Sealing		Welded Hermetic	Welded Hermetic			
Electrical Connector		4-Pin, M12	4-Pin, M12			
Electrical Connection Position		Top	Top			
						