

Model Number EX615A42		HIGH TEMPERATURE INDUSTRIAL ACCELEROMETER			Revision: A ECN #: 47864	
Performance		ENGLISH		SI		
Sensitivity(± 5 %)		100 pC/g		10.2 pC/(m/s²)		
Measurement Range		+/-200 g pk		+/-2000 m/s² pk		
Frequency Range(± 5 %)		5 kHz		5 kHz		
Frequency Range(± 10 %)		6 kHz		6 kHz		
Resonant Frequency		>20 kHz		>20 kHz		
Non-Linearity(<200 g pk)		± 1 %		± 1 %		
Transverse Sensitivity		<5 %		<5 %		
Environmental						
Overload Limit(Shock)		1000 g pk		9800 m/s² pk		
Temperature Range		-65 to +500 °F		-54 to +260 °C		
Temperature Response		See Graph		See Graph		
Temperature Response		+.03 %/°F		+.06 %/°C		
Temperature Response		See Graph		See Graph		
Base Strain Sensitivity		0.003 g/µε		0.03 (m/s²)/µε		
Enclosure Rating		IP68		IP68		
Electrical						
Capacitance(Pin to Pin)		11,100 pF		11,100 pF		
Capacitance(with integral cable)		35 pF/ft		115 pF/m		
Insulation Resistance(at 500F)		≥ 10 ⁷ Ohm		≥ 10 ⁷ Ohm		
Insulation Resistance(at room temp)		≥ 10 ⁹ Ohm		≥ 10 ⁹ Ohm		
Electrical Isolation(Case)		>10 ⁸ Ohm		>10 ⁸ Ohm		
Physical						
Sensing Element		Ceramic		Ceramic		
Sensing Geometry		Shear		Shear		
Housing Material		Stainless Steel		Stainless Steel		
Sealing		Welded Hermetic		Welded Hermetic		
Size (Height x Length x Width)		.89 in x 1.58 in x 1.58 in		23 mm x 40 mm x 40 mm		
Weight(without cable)		6.7 oz		190 gm		
Mounting		Through Holes (4)		Through Holes (4)		
Cable Length		10 ft		3 m		
Cable Termination		Pigtail		Pigtail		
Cable Type		Armored 3-wire, low-noise PTFE cable		Armored 3-wire, low-noise PTFE cable		
Mounting Torque		11 ft-lb		15 Nm		
Typical Sensitivity Deviation vs Temperature						
Notes: [1] Typical. [2] Conversion Factor 1g = 9.81 m/s². [3] 1Hz = 60 cpm (cycles per minute). [4] Zero-based, least-squares, straight line method. [5] Transverse sensitivity is typically ≤ 3%.						
Supplied Accessories: Model 081C108 Mounting Screw, 1/4-28x1, Inconel (4) Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (3)						
Entered: LK		Engineer: JR		Sales: MC		
Date: 2/14/2018		Date: 2/14/2018		Date: 2/14/2018		
Approved: JJB		Spec Number:		58202		
Date: 2/14/2018		Date: 2/14/2018		Date: 2/14/2018		
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