Model Number 608A11	PLATINUM LOW-COST INDUSTRIAL I			CP <sup>®</sup> ACCELEROMETER			Revision H ECN #: 285	Revision H ECN #: 28546	
Performance	ENGLISH	SI		Optional Versions	s (Optional version	s have identical spe			
Sensitivity (±15 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[2]			ed below. More than			
Measurement Range	$\pm 50 \text{ g}$ $\pm 490 \text{ m/s}^2$			EX - Hazardous Area Approval- contact factory for specific approvals					
Frequency Range (±3 dB)	30 to 600000 cpm	0.5 to 10000 Hz		Hazardous Area Approval		Cl I, Div 2, Gr		2, Groups	
Resonant Frequency	1320 kcpm	22 kHz	[1]			A, B, C, D; E		D; ExnL	
Broadband Resolution (1 to 10000 Hz)	350 µg	3434 µm/sec <sup>2</sup>	[1]			IIC T4, AExn		AExnA IIC	
Non-Linearity	±1 %	±1 %	[3]			T4		Г4	
Transverse Sensitivity	≤7 %	≤7 %	1-1	Hazardous Area Approval		EEx nL IIC 1	Γ4, - EEx nL	IIC T4, -	
Environmental						40°C≤Ta≤121		≤121°C, II	
Overload Limit (Shock)	5000 g pk	49050 m/s² pk				3 G	,	G	
Temperature Range	-65 to +250 °F	-54 to +121 °C		Hazardous Area	a Approval	EEx nL IIC 1		IIC T4, -	
Enclosure Rating	IP68	IP68				40°C≤Ta≤121	,	≤121°C, II	
Electrical						40 0 <u>1</u> 1 <u>2</u> 1		G	
Settling Time (within 1% of bias)	≤2.0 sec	≤2.0 sec		Hazardous Area	Approval	CI I, Div I, Gr		I, Groups	
Discharge Time Constant	≥0.3 sec	≥0.3 sec				A, B, C, D; 0		, D; CI II,	
Excitation Voltage	20.3 sec 18 to 28 VDC	20.3 Sec 18 to 28 VDC				Div I, Groups		oups E, F,	
Constant Current Excitation	2 to 20 mA	2 to 20 mA				G; CI III, Di		III, Div I	
Output Impedance	<150 Ohm	<150 Ohm		Hazardous Area Approval		Exia IIC T4, A		T4, AExia	
Output Impedance Output Bias Voltage	8 to 12 VDC	8 to 12 VDC		nazardodo mod Appioval		IIC, T4		, T4	
Spectral Noise (10 Hz)	8 µg/√Hz	78.5 (μm/sec² /√Hz	[1]	LB - Low Bias Vo	ltage	110, 14		·, · -	
Spectral Noise (10 Hz)	8 μg/√Hz 5 μg/√Hz	78.5 (µm/sec /√Hz 49.1 (µm/sec²/√Hz				4.8 to 6.5 V		6.5 VDC	
			[1]	Excitation Voltage		12 to 28 VI		28 VDC	
Spectral Noise (1 kHz)	4 µg/√Hz	39.2 (µm/sec² /√Hz	[1]	Measurement Range		±10 g		$m/s^2$	
Electrical Isolation (Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm		Measurement Range		±10 g	±30	11/3	
Physical	0/40 - 0.5 -					A61 Mounting stud,	1/4-28 to M6 x 1 r	anlaces Model	
Size (Hex x Height)	9/16 in x 2.5 in	14 mm x 64 mm		081A40		Ao i mounting stud,	1/4-20 10 1010 X 1 1	epiaces model	
Weight (with cable)	3.5 oz	99.3 gm							
Mounting	Stud	Stud		TO - Temperature Output Temperature Output Range		+36 to +250	)°⊑ 12 to 1	+121 °C	
Mounting Thread	1/4-28 Female	1/4-28 Female	[4]	Temperature Scale Factor		5.56 mV/°F		mV/°C)	
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm		Electrical Connector		Molded Inte		l Integral	
Sensing Element	Ceramic	Ceramic				Cable		able	
Sensing Geometry	Shear	Shear		Electrical Connections (Red)		Acceleratio		eration	
Housing Material	Stainless Steel	Stainless Steel		Electrical Connections (Red)		Output		Itput	
Sealing	Molded	Molded		Electrical Connections (Black)		Ground		ound	
Electrical Connector	Molded Integral	Molded Integral		Electrical Connections (White)		Temperatu			
	Cable	Cable		Electrical Conine	ections (white)			erature	
Electrical Connection Position	Тор	Тор				Output	Ou	itput	
Cable Length	10 ft	3 m		Notes					
Cable Type	Polyurethane	Polyurethane	[5]	[1] Typical.					
	[1] Typical. [2] Conversion Factor 1g = 9.81 m/s <sup>2</sup> .								
	[2] Conversion Pactor 1g = 9.81 m/s <sup>2</sup> . [3] Zero-based, least-squares, straight line method.								
				[4] 1/4-28 has no equivalent in S.I. units.					
	Typical Sensitivity Deviation vs Temperature			[4] 1/4-26 has no equivalent in S.I. units. [5] Twisted shielded pair.					
				[6] See PCB Declaration of Conformance PS023 or PS060 for details.					
	20		l I	[0] See PCB	Declaration of CC	mormance PS023 (	I FOUDU TOF detail	15.	
"				Cumulia d Access					
				Supplied Accessories					
	الله -20 <b></b>			081A40 Mounting Stud (1) ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm					
	S -100	0 100 200 30	00	(100 Hz) (1)	able single-axis si	ngie-point amplitude	e response calibra	tion at 6000 cpm	
		Temperature (°F)		, , , , ,		-			
<b>~</b> –				Entered: LLH	Engineer: LAB	Sales: EGY	Approved: LLH	Spec Number	
				Date:	Date:	Date:	Date:	13273	
194® ( 2~ )				04/07/2008	04/01/2008	04/03/2008	04/09/2008		

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.

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