

	ENGLISH	SI	
Performance			
Sensitivity(± 20%)(Z Axis)	0.25 mV/lb	0.06 mV/N	
Sensitivity(± 20%)(X or Y Axis)	1.25 mV/lb	0.28 mV/N	
Measurement Range(Z Axis)	10,000 lb	44.48 kN	
Measurement Range(X or Y Axis)	4,000 lb	17.79 kN	
Maximum Force(Z Axis)	11,000 lb	48.93 kN	
Maximum Force(X or Y Axis)	4,400 lb	19.57 kN	
Maximum Moment(Z Axis)	240 ft-lb	325.4 Nm	
Maximum Moment(X or Y Axis)	325 ft-lb	440.6 Nm	
Broadband Resolution(Z Axis)	0.05 lb-rms	0.222 N-rms	[1]
Broadband Resolution(X or Y Axis)	0.01 lb-rms	0.044 N-rms	[1]
Low Frequency Response(- 5%)(Z-Axis)	0.01 Hz	0.01 Hz	
Low Frequency Response(- 5%)(X or Y Axis)	0.001 Hz	0.001 Hz	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[2]
Cross Talk(between X and Y Axis)	± 3 %	± 3 %	
Cross Talk(between (X or Y Axis) and Z Axis)	± 5 %	± 5 %	
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Electrical			
Full Scale Output(Z Direction)	± 2.5 VDC	± 2.5 VDC	
Full Scale Output(X and Y Direction)	± 5 VDC	± 5 VDC	
Discharge Time Constant(Z Axis)	≥ 50 sec	≥ 50 sec	
Discharge Time Constant(X or Y Axis)	≥ 500 sec	≥ 500 sec	
Excitation Voltage(all channels)	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation(all channels)	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Spectral Noise(1 Hz)(X & Y)	0.003 lb/√Hz	0.0133 N/√Hz	
Spectral Noise(10 Hz)(X & Y)	0.001 lb/√Hz	0.00445 N/√Hz	
Spectral Noise(100 Hz)(X & Y)	0.0004 lb/√Hz	0.00178 N/√Hz	
Spectral Noise(1,000 Hz)(X & Y)	0.0001 lb/√Hz	0.00044 N/√Hz	
Spectral Noise(1 Hz)(Z)	0.02 lb/√Hz	0.089 N/√Hz	
Spectral Noise(10 Hz)(Z)	0.005 lb/√Hz	0.0222 N/√Hz	
Spectral Noise(100 Hz)(Z)	0.002 lb/√Hz	0.0089 N/√Hz	
Spectral Noise(1,000 Hz)(Z)	0.0005 lb/√Hz	0.00222 N/√Hz	
Output Polarity	Positive	Positive	
Electrical Isolation	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	
Physical			
Stiffness(X or Y Axis)	5.5 lb/μin	960 N/μm	[1]
Stiffness(Z Axis)	15.0 lb/μin	2,630 N/μm	[1]
Stiffness(RX or RY Axis)	1.7E7 lbf*in/radian	1.9E6 N*m/radian	[1][3]
Stiffness(RZ Axis)	7.1E6 lbf*in/radian	8.0E5 N*m/radian	[1][3]
Coupled Stiffness(X-RY or Y-RX Axis)	7.9 lbf*in/μin	35 N*μm	[1][3]
Size (Height x Length x Width)	3.54 in x 3.15 in x 3.15 in	89.9 mm x 80.0 mm x 80.0 mm	
Weight	108.65 oz	3,080 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Electrical Connector	4-Pin	4-Pin	
Electrical Connection Position	Side	Side	

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.

M - Metric Mount

W - Water Resistant Cable

NOTES:

[1] Typical.

[2] Zero-based, least-squares, straight line method.

[3] See PCB White Paper WPL_88_1121 for details.

[4] See PCB Declaration of Conformance PS023 for details.



Entered: ND	Engineer: EB	Sales: BS	Approved: RPF	Spec Number:
Date: 05/11/2023	Date: 05/11/2023	Date: 05/11/2023	Date: 05/11/2023	74528

PCB PIEZOTRONICS
 AN AMPHENOL COMPANY

Phone: 716-684-0001
 Fax: 716-684-0987
 E-Mail: info@pcb.com

3425 Walden Avenue, Depew, NY 14043

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.
 ICP® is a registered trademark of PCB Piezotronics, Inc.