

Performance	ENGLISH	SI	
Measurement Range(for ±5V output)	10,000 psi	68,950 kPa	
Useful Overrange(for ± 10V output)	20,000 psi	137,900 kPa	[1]
Sensitivity(± 15 %)	0.5 mV/psi	0.073 mV/kPa	
Maximum Pressure	50,000 psi	344,750 kPa	
Resolution	0.2 psi	0.14 kPa	[2]
Resonant Frequency	≥ 1,000 kHz	≥ 1,000 kHz	
Rise Time(Reflected)	≤ 1.5 μ sec	≤ 1.5 μ sec	
Low Frequency Response(- 5 %)	1.7 Hz	1.7 Hz	
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	[3]
Environmental			
Temperature Range(Operating)	-10 to +100 °F	-23 to +37.8 °C	
Maximum Shock	20,000 g pk	196,140 m/s ² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 0.3 sec	≥ 0.3 sec	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	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	
Physical			
Sensing Element	Tourmaline	Tourmaline	
Housing Material	Stainless Steel	Stainless Steel	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.75 oz	21.0 gm	

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.

W - Water Resistant Cable

NOTES:

[1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.

[2] Typical.

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

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

SUPPLIED ACCESSORIES:

Model PCS-6AE Calibration of dynamic pressure sensors at 10% and 100% of sensor range up to a maximum of 20k psi

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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.
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