

Model Number 137B22A		ICP® PRESSURE SENSOR		Revision: D ECN #: 55892			
Performance		ENGLISH	SI	OPTIONAL VERSIONS			
Measurement Range(for ±5V output)		500 psi	3,447 kPa	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.			
Useful Overrange(for ± 10V output)		1 kpsi	6,895 kPa				
Sensitivity(± 15 %)		10 mV/psi	1.45 mV/kPa				
Maximum Pressure		5 kpsi	34,474 kPa				
Resolution		1 mpsi	.007 kPa	[2]			
Resonant Frequency		≥ 400 kHz	≥ 400 kHz				
Rise Time(Incident)		≤ 6.5 μ sec	≤ 6.5 μ sec	[3]			
Non-Linearity		≤ 1.0 % FS	≤ 1.0 % FS				
Environmental							
Temperature Range(Operating)		-100 to +275 °F	-73 to +135 °C				
Temperature Coefficient of Sensitivity		≤ 0.05 %/°F	≤ 0.090 %/°C				
Electrical							
Discharge Time Constant(at room temp)		≥ 0.2 sec	≥ 0.2 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 Geometry		Compression	Compression				
Sensing Element		Quartz	Quartz				
Housing Material		Aluminum	Aluminum				
Diaphragm		Invar	Invar				
Sealing		Epoxy	Epoxy				
Electrical Connector		10-32 Coaxial Jack	10-32 Coaxial Jack	[2]			
Weight		12.4 oz	352 gm				
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 085A43 Connector Protector							
Model PCS-1AZ Sensitivity calibration at 100% and 10% of sensor range							
Entered: ND		Engineer: RPF		Sales: AH			
Date: 07/30/2025		Date: 07/30/2025		Date: 07/30/2025			
				Approved: RPF			
				Spec Number:			
				55317			
CE UK CA [4] PCB PIEZOTRONICS AN AMPHENOL COMPANY Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com 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. 3425 Walden Avenue, Depew, NY 14043							