Model Number 137B24B	ICP® PRESSURE SENSOR	Revision: B ECN #: 51260

Performance	ENGLISH	SI	
Measurement Range(for ±5V output)	250 psi	1,724 kPa	
Measurement Range(for ±10V output)	500 psi	3,447 kpsi	[1]
Sensitivity(± 15 %)	20 mV/psi	2.90 mV/kPa	
Maximum Pressure	5 kpsi	34,474 kPa	
Resolution	.7 mpsi	.005 kPa	[2]
Resonant Frequency	≥ 400 kHz	≥ 400 kHz	
Rise Time(Incident)	≤ 6.5 µ sec	≤ 6.5 µ sec	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[3]
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	≤ 200 Ohm	≤ 200 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	BNC Jack	BNC Jack	
Weight	12.4 oz	352 gm	[2]

CE[4]

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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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.

NOTES:

[1]For +10 volt output, minimum 26 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-1 Calibration of pressure sensors up to 15k psi (except Series 113B50)

Entered: LK	Engineer: RPF	Sales: RWM	Approved: RPF	Spec Number:
Date: 11/13/2020	Date: 11/13/2020	Date: 11/13/2020	Date: 11/13/2020	55320

PCB PIEZOTRONICS
Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com
3425 Walden Avenue, Depew, NY 14043