

Model Number 137B23B	ICP® PRESSURE SENSOR	Revision: B ECN #: 39466
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Measurement Range(for ±5V output)	50 psi	345 kPa	
Useful Overrange(for ± 10V output)	100 psi	690 kPa	[1]
Sensitivity(± 15 %)	100 mV/psi	14.5 mV/kPa	
Maximum Pressure	1 kpsi	6895 kPa	
Resolution	10 mpsi	0.069 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	22 to 30 VDC	22 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	BNC Jack	BNC Jack	
Weight	12.4 oz	352 gm	[2]

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 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-6 Calibration of Series 134, 137, and 138 (1)

Entered: ECB	Engineer: MJN	Sales: RWM	Approved: TB	Spec Number:
Date: 7/26/2012	Date: 7/26/2012	Date: 7/26/2012	Date: 7/26/2012	46932



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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