Model Number 137B25	ICP® PRESSURE SENSOR	Revision: D ECN #: 51260

Performance	ENGLISH	SI	
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	[2]
Maximum Pressure	1 kpsi	6,895 kPa	
Resolution	10 mpsi	0.069 kPa	[3]
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	[4]
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)	≥ 0.3 sec	≥ 0.3 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 15 VDC	8 to 15 VDC	
Physical			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	Aluminum	Aluminum	
Diaphragm	Invar	Invar	
Sealing	Epoxy	Epoxy	
Electrical Connector	4-Pin	4-Pin	[2]
Weight	16.1 oz	456 gm	[3]

CE[5]

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]Two identically spec'd elements spaced 10cm apart - see drawing #65310 for details. Individual calibration certs supplied for each channel.
[3]Typical.
[4]Zero-based, least-squares, straight line method.
[5]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model PCS-6 Calibration of Series 134, 137 (2-sensor probes only), and 138 (2)

OPTIONAL ACCESSORIES:

Model 010AYXXXQM 4-socket plug to double splice BNC plugs

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	65309

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