137B25	ICP® PRESSURE			
Performance	<u>ENGLISH</u>	<u>SI</u>		
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	6895 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

Model Number

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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# **E SENSOR**

456 gm

16.1 oz

[3]

Revision: C ECN #: 46873

# **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, and 138 (2)

# **OPTIONAL ACCESSORIES:**

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

Entered: JM	Engineer: DK	Sales: RWM	Approved: BAM	Spec Number:
Date: 6/6/2017	Date: 6/6/2017	Date: 6/6/2017	Date: 6/6/2017	65309



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