

Model Number

134A27

ICP® PRESSURE SENSOR

Revision: G

ECN #: 29109

	ENGLISH	SI	
Performance			
Measurement Range(for ±5V output)	20 kpsi	137,900 kPa	
Sensitivity(± 15 %)	0.25 mV/psi	0.04 mV/kPa	[1]
Maximum Pressure(static)	20 kpsi	137,900 kPa	
Resolution	300 mpsi	2.1 kPa	[2]
Resonant Frequency	≥ 1500 kHz	≥ 1500 kHz	
Rise Time(Reflected)	≤ 0.2 μ sec	≤ 0.2 μ sec	
Low Frequency Response(-5 %)	1 Hz	1 Hz	
Non-Linearity	≤ 2 % FS	≤ 2 % FS	[3]
Environmental			
Temperature Range(Operating)	+32 to +120 °F	0 to +49 °C	
Maximum Flash Temperature	5000 °F	2760 °C	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 0.5 sec	≥ 0.5 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 Element	Tourmaline	Tourmaline	
Housing Material	Stainless Steel	Stainless Steel	
Diaphragm	Epoxy	Epoxy	
Sealing	Epoxy	Epoxy	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	1.4 oz	39 gm	

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.

M - Metric Mount

N - Negative Output Polarity

NOTES:

[1] Calibrated as a system using (3 inch) type 003 cable and 402A series in-line amplifier.

[2] Typical.

[3] Zero-based, least-squares, straight line method.

[4] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 061A30 Spanner Wrench, 2 Pin (1)

Entered: BLS	Engineer: RE	Sales: RNM	Approved: BM	Spec Number:
Date: 7/16/08	Date: 7/16/08	Date: 7/16/08	Date: 7/16/08	6617



[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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PCB PIEZOTRONICS™
PRESSURE DIVISION

3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001

Fax: 716-686-9129

E-Mail: pressure@pcb.com