

Model Number

134A27

## ICP® PRESSURE SENSOR

Revision: G

ECN #: 29109

	ENGLISH	SI	
<b>Performance</b>			
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]
<b>Environmental</b>			
Temperature Range(Operating)	+32 to +120 °F	0 to +49 °C	
Maximum Flash Temperature	5000 °F	2760 °C	
<b>Electrical</b>			
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	
<b>Physical</b>			
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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