

Model Number

134A22

ICP<sup>®</sup> PRESSURE SENSOR SPECIFICATIONS

Revision: F

ECN #: 16197

**Performance**

	ENGLISH	SI	
Measurement Range (for ± 5V output)	5 kpsi	34475 kPa	[1]
Useful Overrange (for ± 10V output)	10 kpsi	68950 kPa	[2]
Sensitivity (±15 %)	1 mV/psi	0.145 mV/kPa	[2]
Maximum Pressure (static)	15 kpsi	103425 kPa	
Resolution	100 mpsi	0.7 kPa	
Resonant Frequency	≥1500 kHz	≥1500 kHz	
Rise Time (Reflected)	≤0.2 μ sec	≤0.2 μ sec	
Low Frequency Response (-5 %)	2.5 Hz	2.5 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)	≥0.2 sec	≥0.2 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 ohms	≤100 ohms
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] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.

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

[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: <i>BSJ</i>	Engineer: <i>BSH</i>	Sales: <i>JMM</i>	Approved: <i>WSH</i>	Spec Number:
Date: <i>10/3/02</i>	Date: <i>10/3/02</i>	Date: <i>10/3/02</i>	Date: <i>10/10/02</i>	6614



[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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