


Model Number 138A25	ICP® PRESSURE SENSOR		Revision: F ECN #: 29920
Performance	ENGLISH	SI	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. N - Negative Output Polarity W - Water Resistant Cable
Measurement Range(for ±5V output)	25 kpsi	[1] 172,375 kPa	NOTES: [1] Calibrated range to 20,000 psi. [2] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [3] Typical. [4] Zero-based, least-squares, straight line method. [5] See PCB Declaration of Conformance PS023 for details.
Useful Overrange(for ± 10V output)	50 kpsi	[2] 344,750 kPa	
Sensitivity(± 15 %)	0.2 mV/psi	[3] 0.029 mV/kPa	
Maximum Pressure	50 kpsi	[3] 344,750 kPa	
Resolution	500 mpsi	3.5 kPa	
Resonant Frequency	≥ 1000 kHz	≥ 1000 kHz	
Rise Time(Reflected)	≤ 1.5 μ sec	≤ 1.5 μ sec	
Low Frequency Response(-5 %)	2.5 Hz	2.5 Hz	
Non-Linearity	≤ 2.0 % FS	≤ 2.0 % FS	
Environmental	0 to +100 °F	-17.8 to +37.8 °C	
Temperature Range(Operating)	20,000 g pk	196,140 m/s ² pk	
Maximum Shock	Positive	Positive	
Electrical	≥ 0.2 sec	≥ 0.2 sec	
Output Polarity(Positive Pressure)	20 to 30 VDC	20 to 30 VDC	
Discharge Time Constant(at room temp)	2 to 20 mA	2 to 20 mA	
Excitation Voltage	≤ 100 ohm	≤ 100 ohm	
Constant Current Excitation	8 to 14 VDC	8 to 14 VDC	
Output Impedance	Tourmaline	Tourmaline	
Output Bias Voltage	Stainless Steel	Stainless Steel	
Physical	10-32 Coaxial Jack	10-32 Coaxial Jack	
Sensing Element	0.75 oz	21.0 gm	
Housing Material			
Electrical Connector			
Weight			
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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Date: <i>1-8-09</i>	Date: <i>12-19-08</i>	Date: <i>12-22-08</i>	Date: <i>1-7-09</i>
			Spec Number: 138-1250-80
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