

Model Number 105C23		ICP® PRESSURE SENSOR		Revision: C ECN #: 55250		
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Measurement Range(for ±5V output)		5,000 psi	35,000 kPa	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 Supplied Accessory: Model 060A05 Clamp nut M7 x 0.75-6g thd (1) replaces Model 060A03 W - Water Resistant Cable		
Sensitivity(± 15 %)		1.0 mV/psi	0.145 mV/kPa			
Maximum Pressure		7,500 psi	51,700 kPa			
Resolution		0.1 psi	0.69 kPa			[1]
Resonant Frequency		≥ 250 kHz	≥ 250 kHz			
Rise Time(Reflected)		≤ 2.0 μ sec	≤ 2.0 μ sec			
Low Frequency Response(- 5 %)		0.5 Hz	0.5 Hz			
Non-Linearity		≤ 2.0 % FS	≤ 2.0 % FS			[2]
Environmental						
Acceleration Sensitivity		0.04 psi/g	0.028 kPa/(m/s ²)			[1]
Temperature Range(Operating)		-100 to +250 °F	-73 to +121 °C			
Temperature Coefficient of Sensitivity		≤ 0.03 %/°F	≤ 0.054 %/°C			
Maximum Flash Temperature		3,000 °F	1,650 °C			
Maximum Vibration		1,000 g pk	9,800 m/s ² pk			
Maximum Shock		5,000 g pk	49,000 m/s ² pk			
Electrical						
Output Polarity(Positive Pressure)		Positive	Positive			
Discharge Time Constant(at room temp)		≥ 1.0 sec	≥ 1.0 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 14 VDC	8 to 14 VDC			
Physical						
Sensing Geometry		Compression	Compression			
Sensing Element		Quartz	Quartz			
Housing Material		Stainless Steel	Stainless Steel			
Diaphragm		17-4 Stainless Steel	17-4 Stainless Steel			
Sealing		Welded Hermetic	Welded Hermetic			
Electrical Connector		10-32 Coaxial Jack	10-32 Coaxial Jack			
Weight		0.01 oz	3.0 gm			

NOTES:

[1]Typical.

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

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

SUPPLIED ACCESSORIES:

Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)

Model 065A21 Seal ring 0.154" OD x 0.100" ID x 0.022" thk brass (3)

Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.

Entered: ND	Engineer: RPF	Sales: RWM	Approved: RPF	Spec Number:
Date: 10/07/2024	Date: 10/07/2024	Date: 10/07/2024	Date: 10/07/2024	11708



[3]

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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