

Model Number
105C12

ICP® PRESSURE SENSOR

Revision: D
ECN #: 27023

	ENGLISH	SI
Performance		
Measurement Range(for ±5V output)	1 kpsi	6895 kPa
Sensitivity(± 15 %)	5.0 mV/psi	0.73 mV/kPa
Maximum Pressure	2 kpsi	13,790 kPa
Resolution	20 mpsi	0.14 kPa
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
Environmental		
Acceleration Sensitivity	≤ 0.04 psi/g	≤ 0.028 kPa/(m/s ²)
Temperature Range(Operating)	-100 to +250 °F	-73 to +121 °C
Temperature Coefficient of Sensitivity	≤ 0.09 %/°F	≤ 0.162 %/°C
Maximum Flash Temperature	3000 °F	1649 °C
Maximum Shock	5000 g pk	49,035 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	5-44 Coaxial	5-44 Coaxial
Weight	0.055 oz	1.56 gm

[1]

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

W - Water Resistant Cable

NOTES:

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

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

SUPPLIED ACCESSORIES:

Model 018C10 Miniature coaxial cable, vinyl insulation jacket, 10-ft, 5-44 coaxial plug to BNC plug (1)

Model 040A37 Hex nut driver (1)

Model 065A10 Seal ring 0.138" OD x 0.101" ID x 0.022" thk brass (3)

Model 065A38 Seal & Sleeve 0.138" OD x 0.101" ID x 0.105" thk., brass. (3)

Entered: BLS	Engineer: RF	Sales: RWM	Approved: NJL	Spec Number:
Date: 8-6-07	Date: 8-3-07	Date: 8-3-07	Date: 8-3-07	11321



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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