

Model Number
EX171A01

CHARGE OUTPUT PRESSURE SENSOR

Revision: A
ECN #: 55076

Performance	ENGLISH	SI	
Sensitivity(± 30 %)	1,200 pC/psi	174 pC/kPa	
Measurement Range	10 psi	68.9 kPa	
Maximum Pressure(Total)	600 psi	4,136 kPa	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Rise Time(Reflected)	≤ 10 μ sec	≤ 10 μ sec	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[1]
Environmental			
Acceleration Sensitivity	.005 psi/g	.0035 kPa/(m/s ²)	[2]
Temperature Range(Operating)	0 to 500 °F	-18 to 260 °C	
Temperature Coefficient of Sensitivity	≤ 0.08 %/°F	≤ 0.144 %/°C	
Maximum Shock	1,000 g pk	1,000 g pk	
Hazardous Area Approval	See Manual	See Manual	
Electrical			
Output Polarity	Differential	Differential	
Capacitance	12,000 pF	12,000 pF	[2]
Electrical Isolation	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	
Internal Resistance(@500F)	≥ 500 kohm	≥ 500 kohm	
Internal Resistance	≥ 1 GOhm	≥ 1 GOhm	
Physical			
Sensing Geometry	Compression	Compression	
Housing Material	316L Stainless Steel	316L Stainless Steel	
Diaphragm	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Weight	6.5 oz	185 gm	[2]

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.

NOTES:

- [1]Zero-based, least-squares, straight line method.
- [2]Typical.
- [3]See PCB Declaration of Conformance PS132 for details.

SUPPLIED ACCESSORIES:

Model 31061-01 SEAL, 1.370" OD x 1.130" ID x.030", BRASS (2)
Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.



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.

Entered: ND	Engineer: AJA	Sales: RWM	Approved: RPF	Spec Number:
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