Model Number			
176M09			

CHARGE OUTPUT PRESSURE SENSOR

[2][3] [4]

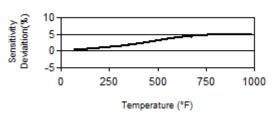
[1]

Revision: F ECN #: 46623

Performance	ENGLISH	<u>\$I</u>
Sensitivity(± 20 %)	17 pC/psi	247 pC/bar
Measurement Range	20 psi	1.4 bar
Maximum Pressure(Total)	400 psi	27.6 bar
Resonant Frequency	>50 kHz	>50 kHz
Frequency Response	10 kHz	10 kHz
Non-Linearity	≤ 1 % FS	≤ 1 % FS
Environmental		
Acceleration Sensitivity	≤ 0.01 psi/g	≤ .00069 bar/g
Temperature Range(Continuous)	-94 to 986 °F	-70 to 530 °C
Temperature Range(Receptacle)	-76 to 500 °F	-60 to 260 °C
Temperature Response	See Graph	See Graph
Hazardous Area Approval	See Manual	See Manual
Radiation Exposure Limit(Integrated Gamma Flux)	1E8 rad	1E8 rad
Radiation Exposure Limit(Integrated Neutron Flux)	1E10 N/cm ²	1E10 N/cm ²
Electrical		
Output Polarity(Differential)	Differential	Differential
Capacitance(with cable pin - pin)	<165 pF	<165 pF
Internal Resistance(room temp)	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm
Insulation Resistance(room temp)	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm
Internal Resistance(986°F/530°C)	≥ 50 kohm	≥ 50 kohm
Insulation Resistance(986°F/530°C)	≥ 100 kohm	≥ 100 kohm
Physical		
Sensing Element	UHT-12™	UHT-12™
Sensing Geometry	Compression	Compression
Housing Material	Nickel Alloy	Nickel Alloy
Sealing	Welded Hermetic	Welded Hermetic
Electrical Connector	7/16-27 2-Pin	7/16-27 2-Pin
Cable Type	Overbraided Hardline	Overbraided Hardline
Weight(with clamp nut & cable)	8.3 oz	235 gm

Typical Sensitivity Deviation vs Temperature







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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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] Typical.
- [2] Low frequency response is determined by external signal conditioning electronics.
- [3] Upper frequency response is calculated from Resonant Frequency.
 [4] Zero-based, least-squares, straight line method.
- [5] See PCB Declaration of Conformance PS058 for details.

SUPPLIED ACCESSORIES:

Model 40890-01 Silver plated, ss, seal (6) Model 40902-01 Clamp nut (1)

Entered: LK	Engineer: GJR	Sales: JC	Approved: BAM	Spec Number:
Date: 3/30/2017	Date: 3/30/2017	Date: 3/30/2017	Date: 3/30/2017	40901



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