

Model Number 176M07		CHARGE OUTPUT PRESSURE SENSOR		Revision: J ECN #: 55057	
<b>Performance</b>		<b>ENGLISH</b>		<b>SI</b>	
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		> 30 kHz		> 30 kHz	
Transverse Resonance		> 3,000 Hz		> 3,000 Hz	
Frequency Response		1,500 Hz		1,500 Hz	
Non-Linearity		≤ 1 % FS		≤ 1 % FS	
<b>Environmental</b>					
Acceleration Sensitivity		0.01 psi/g		.00069 bar/g	
Acceleration Sensitivity		.003 bar/g		.00021 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/cm²		1E10 N/cm²	
<b>Electrical</b>					
Output Polarity(Differential)		Differential		Differential	
Capacitance(with cable pin - pin)		165 pF		165 pF	
Resistance(Pin-Pin)(Room Temp)		≥ 10¹² Ohm		≥ 10¹² Ohm	
Resistance(Pin-Case)(Room Temp)		≥ 10¹² Ohm		≥ 10¹² Ohm	
Resistance(Pin-Pin)(986°F/530°C)		≥ 50 kohm		≥ 50 kohm	
Resistance(Pin-Case)(986°F/530°C)		≥ 100 kohm		≥ 100 kohm	
Insulation Resistance		See Graph		See Graph	
Insulation Resistance		See Graph		See Graph	
Insulation Resistance		See Graph		See Graph	
Insulation Resistance		See Graph		See Graph	
<b>Physical</b>					
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 cable)		11.1 oz		315 gm	