

Model Number 176A02		CHARGE OUTPUT PRESSURE SENSOR		Revision: E ECN #: 46623	
Performance		ENGLISH		SI	
Sensitivity(+/-20 %)		6 pC/psi		87 pC/bar	
Measurement Range		725 psi		50 bar	
Maximum Pressure(Total)		2 kpsi		137.9 bar	
Resonant Frequency		≥ 100 kHz		≥ 100 kHz	
Transverse Resonance		>15 kHz		>15 kHz	
Frequency Response(± 5.0 %)		20 kHz		20 kHz	
Non-Linearity		≤ 1 % FS		≤ 1 % FS	
Environmental					
Acceleration Sensitivity		≤ 0.0036 psi/g		≤ .00025 bar/g	
Temperature Range(Continuous)		-94 to 1200 °F		-70 to 650 °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 Neutron Flux)		1E10 N/cm²		1E10 N/cm²	
Radiation Exposure Limit(Integrated Gamma Flux)		1E8 rad		1E8 rad	
Electrical					
Output Polarity		Differential		Differential	
Capacitance(with cable pin - pin)		150 pF		150 pF	
Internal Resistance(room temp)		≥ 10 ¹² Ohm		≥ 10 ¹² Ohm	
Insulation Resistance(room temp)		≥ 10 ¹² Ohm		≥ 10 ¹² Ohm	
Internal Resistance(1200°F/650°C)		≥ 50,000 Ohm		≥ 50,000 Ohm	
Insulation Resistance(1200°F/650°C)		≥ 100,000 Ohm		≥ 100,000 Ohm	
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		Hardline		Hardline	
Cable Length		10 ft		3 m	
Weight(with cable)		4.6 oz		130 gm	