Model Number 176A 31	(	CHARGE OUTPUT PRESSURE SENSOR						evision: C CN #: 55057
	ENGLISH	SI		-		PTIONAL VERSIO		2.1
erformance		s 87 pC/bar		Optional versions	have identical specific where noted be	cations and accessori	es as listed for the st	andard model e
ensitivity(+/- 20 %) leasurement Range	6 pC/psi 3,000 psi	206.8 bar			where noted be	low. More than one o	ption may be used.	
laximum Pressure(Total)	5,200 psi	358.5 bar						
esonant Frequency	5,200 psi ≥ 100 kHz	≥ 100 kHz						
ansverse Resonance	>15 kHz	≥ 100 kHz >15 kHz						
			[1][]]					
equency Response(± 5 %) on-Linearity	20 kHz ≤ 1 % FS	20 kHz ≤ 1 % FS	[1][2]					
vironmental	S 1 /0 F3	S 1 /0 F3	[3]					
celeration Sensitivity	0.0036 psi/g	.00025 bar/g	[4]					
celeration Sensitivity	.002 psi/g	.00023 bar/g	[5]					
mperature Range(Operating)	-94 to 1,400 °F	-70 to 760 ℃	[5]					
mperature Range(Connector)	-65 to 900 °F	-53.9 to 482.2 ℃						
mperature Response	See Graph	See Graph	[5]					
zardous Area Approval	See Manual	See Manual	[5]					
diation Exposure Limit(Integrated	1E10 N/cm <sup>2</sup>	1E10 N/cm <sup>2</sup>						
eutron Flux)	TE TO NY CIT	TE TO N/ CIT						
diation Exposure Limit(Integrated	1E8 rad	1E8 rad						
imma Flux)	TEOTAd	TEOTAd						
ectrical								
tput Polarity(Differential)	Differential	Differential						
pacitance	70 pF	70 pF	[5]					
sistance(Pin-Pin)(Room Temp)	≥ 1E12 Ohm	≥ 1E12 Ohm	[5]					
sistance(Pin-Case)(Room Temp)	≥ 1E12 Ohm	≥ 1E12 Ohm						
sistance(Pin-Pin)(1400°F/760°C)	≥ 50,000 Ohm	≥ 50,000 Ohm						
sistance(Pin-Case)(1400°F/760°C)	≥ 100,000 Ohm	≥ 100,000 Ohm						
ulation Resistance	See Graph	See Graph						
ulation Resistance	See Graph	See Graph						
ulation Resistance	See Graph	See Graph						
ulation Resistance	See Graph	See Graph						
nysical								
nsing Element	UHT-12™	UHT-12™						
nsing Geometry	Compression	Compression						
ousing Material	Nickel Alloy	Nickel Alloy		NOTES:				
aling	Welded Hermetic	Welded Hermetic			response is determir	and by outproved signs	l conditioning alactra	nice
ectrical Connector	7/16-27 2-PIN	7/16-27 2-PIN			icy response is calcula			nics.
ble Type	Hardline	Hardline			ast-squares line met		requency.	
ble Length	3 ft	0.91 m		[4]Maximum.	ast-squares line met	nou.		
eight(with cable)	4.73 oz	134 gm	[5]	[5]Typical.				
				[6]See PCB Declaration of Conformance PS058 for details.				
CE	Typical Sensitivity Deviation vs Temperature			SUPPLIED ACCESSORIES: Model 72836-01 Silver Plated, Nickel Alloy, Seal. (3) Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.				
JK	B 0 250	500 750 100	00 1250 1450					
		Temperature (°F)		Entered: ND	Engineer: AJA	Sales: MV	Approved: RPF	Spec Number
$\neg$				Date: 08/05/2024	Date: 08/05/2024		Date: 08/05/2024	72830
specifications are at room temperature the interest of constant product improve		ance specifications without	it notice		TEZOTRO AN AMPHENOL hue, Depew, NY 1404	COMPANY	-684-0001 84-0987 o@pcb.com	