Model Number 176A03	CHARGE OUTPUT PRES				SSURE SENSOR				
Dourforman on	ENCLICU	CI.			0	PTIONAL VERSI	ONS		
Sepsitivity(+ 20 %)		232 pC /bar		Optional versions	have identical specifi	cations and accessor	ies as listed for the st	andard model except	
Measurement Range	290 psi	20 bar			where noted be	low. More than one c	option may be used.		
Maximum Pressure(Total)	5.000 psi	344.7 bar							
Resonant Frequency	≥ 50 kHz	≥ 50 kHz							
Transverse Resonance	10 kHz	10 kHz	[1]						
Frequency Response(+/- 5 %)	10 kHz	10 kHz	[2][3]						
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]						
Environmental		0.000041							
Acceleration Sensitivity	0.003 psi/g	0.00021 bar/g	[1]						
Acceleration Sensitivity	.007 psi/g	.00050 bar/g	[5]						
Temperature Range(Connector)	-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	1E8 rad	1E8 rad							
Gamma Flux)									
Radiation Exposure Limit(Integrated	1E10 N/cm ²	1E10 N/cm ²							
Neutron Flux)									
Electrical									
Output Polarity	Differential	Differential							
Capacitance(with cable pin - pin)	170 pF	170 pF	[1]						
Resistance(Pin-Pin)(Room Temp)	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm							
Resistance(Pin-Case)(Room Temp)	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm							
Resistance(Pin-Pin)(1200°F/650°C)	≥ 50 kohm	≥ 50 kohm							
Resistance(Pin-Case)(1200°F/650°C)	≥ 100 kohm	≥ 100 kohm							
Insulation Resistance	See Graph	See Graph							
Insulation Resistance	See Graph	See Graph							
Insulation Resistance	See Graph	See Graph							
Physical	See Graph	See Graph							
Sensing Element	UHT-12™	UHT-12™							
Sensing Geometry	Compression	Compression							
Housing Material	Nickel Alloy	Nickel Alloy		NOTES:					
Sealing	Welded Hermetic	Welded Hermetic		[1]Typical.					
Electrical Connector	7/16-27 2-Pin	7/16-27 2-Pin		[2]Upper frequen	cy response is calcula	ated from Resonant F	requency.		
Cable Type	Overbraided Hardline	Overbraided Hardline		[3]Low frequency	response is determin	ned by external signa	l conditioning electro	nics.	
Cable Length	10 ft	3.05 m		[4]Zero-based, le	ast-squares, straight	line method.			
Weight(with cable)	17.6 oz	500 gm		[6]See PCB Declaration of Conformance PS058 for details.					
	Typical Sensi	itivity Deviation vs Temp	erature		CESSORIES:				
	⇒⊊ ¹⁵ ⊤−−−			Model PCS-1 Calib	Model PCS-1 Calibration of dynamic pressure sensors at 100% full scale, max 15 kpsi range.				
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IUK	0	300 600 9	00 1200						
[6]		Temperature (°F)		Entered: ND	Engineer: AJA	Sales: MV	Approved: NJF	Spec Number:	
_				Date: 08/05/2024	Date: 08/05/2024	Date: 08/05/2024	Date: 08/05/2024	58671	
					Phone: 716-684-0001 Fax: 716-684-0001 Fax: 716-684-0987 Fax: 716-684-0987 Fax: 716-684-0987				
(CX/QP"									
All specifications are at room temperature unless otherwise specified				AN AMPHENOL COMPANY					
In the interest of constant product improve	ment we reserve the right to ch	ange specifications without	notice	3425 Walden Aven	ue, Depew, NY 1404	3			
and the interest of constant product improve		ange specifications without							