Model Number 176M 03	CHARGE OUTPUT PRESSURE SENSOR				
Performance	ENGLISH	SI		Optional versions have identical	
Sensitivity(± 20 %)	17 pC/psi	247 pC/bar		where no	
Measurement Range	20 psi	1.4 bar			
Maximum Pressure(Total)	400 psi	27.6 bar			
Resonant Frequency	> 50 kHz	> 50 kHz			
Transverse Resonance	≥ 5 kHz	≥ 5 kHz	******		
Frequency Response	10 kHz	10 kHz	[1][2]		
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[3]		
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	F 41		
Temperature Response	See Graph	See Graph	[4]		
Hazardous Area Approval	See Manual	See Manual			
Radiation Exposure Limit(Integrated	1E8 rad	1E8 rad			
Gamma Flux)	4540 N/ 2	4540 N/ 2			
Radiation Exposure Limit(Integrated	1E10 N/cm ²	1E10 N/cm ²			
Neutron Flux) Electrical					
	Differential	Differential			
Output Polarity(Differential) Capacitance(with cable pin - pin)	< 165 pF	< 165 pF			
Resistance(Pin-Pin)(Room Temp)		the state of the s			
, ,,	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm			
Resistance(Pin-Case)(Room Temp)	≥ 10 ¹² Ohm	≥ 10 ¹² 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	100	100			
Physical					
Sensing Element	UHT-12™	UHT-12™			
Sensing Geometry	Compression	Compression			
Housing Material	Nickel Alloy	Nickel Alloy			

Welded Hermetic

7/16-27 2-Pin

Overbraided Hardline

4.9 oz

OPTIONAL VERSIONS

Revision: L

ECN #: 54257

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

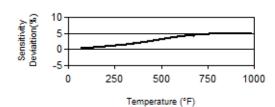
- [1] Low frequency response is determined by external signal conditioning electronics.
- [2] Upper frequency response is calculated from Resonant Frequency.
- [3]Zero-based, least-squares, straight line method.
- [5]See PCB Declaration of Conformance PS058 for details.

UK

Sealing Electrical Connector

Cable Type

Weight(with clamp nut & cable)



Typical Sensitivity Deviation vs Temperature

Welded Hermetic

7/16-27 2-Pin

Overbraided Hardline

140 gm

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. ICP® is a registered trademark of PCB Piezotronics, Inc.

SUPPLIED ACCESSORIES:

Model 30498-01 Clamp nut (1) Model 40890-01 Silver plated, ss, seal (6)

Entered: ND	Engineer: RPF	Sales: DPC	Approved: RPF	Spec Number:
Date: 10/12/2023	Date: 10/12/2023	Date: 10/12/2023	Date: 10/12/2023	35041



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