

Model Number
176M 46A

CHARGE OUTPUT PRESSURE SENSOR

Revision: A
ECN #: 54516

Performance

	ENGLISH	SI	
Measurement Range	10 psi	68.9 kPa	
Maximum Pressure(static)	2,000 psi	13,790 kPa	
Resonant Frequency	≥ 50 kHz	≥ 50 kHz	
Transverse Resonance	≥ 5 kHz	≥ 5 kHz	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[1]

Environmental

	ENGLISH	SI	
Acceleration Sensitivity	≤ 0.01 psi/g	≤ 0.007 kPa/(m/s ²)	
Temperature Range(Operating)	1,200 °F	650 °C	
Temperature Range(Receptacle)	500 °F	260 °C	
Temperature Response	See Graph	See Graph	[2]
Hazardous Area Approval	See Manual	See Manual	

Electrical

	ENGLISH	SI	
Output Polarity(Differential)	Differential	Differential	
Capacitance(with cable)	150 pF	150 pF	[3]
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	

Physical

	ENGLISH	SI
Sensing Geometry	Compression	Compression
Housing Material	Inconel	Inconel
Sealing	Welded Hermetic	Welded Hermetic
Electrical Connector	2-Pin	2-Pin
Electrical Connector	Integral Cable	Integral Cable
Cable Type	2-conductor	2-conductor
Weight	5.5 oz	155 gm

OPTIONAL VERSIONS

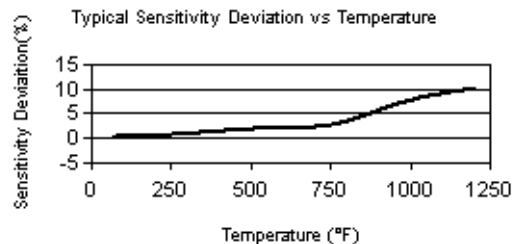
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1]Zero-based, least-squares, straight line method.
- [2]Typical.
- [3]Nominal.
- [4]See PCB Declaration of Conformance PS058 for details.

SUPPLIED ACCESSORIES:

Model 40890-03 SILVER PLATED, SS SEAL (3)



[4]

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.

Entered: ND	Engineer: RPF	Sales: DPC	Approved: RPF	Spec Number:
Date: 01/11/2024	Date: 01/11/2024	Date: 01/11/2024	Date: 01/11/2024	76663

PCB PIEZOTRONICS
AN AMPHENOL COMPANY
Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com

3425 Walden Avenue, Depew, NY 14043