

Model Number 117B-40K		CHARGE OUTPUT PRESSURE SENSOR			Revision: T ECN #: 55204
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 20 %)(for straight oil)		0.110 pC/psi	0.016 pC/kPa	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. M - Metric Mount	
Measurement Range		10 to 35 kpsi	68,950 to 241,300 kPa		
Maximum Pressure		40 kpsi	275,800 kPa		
Resonant Frequency		≥ 300 kHz	≥ 300 kHz		
Rise Time(Reflected)		≤ 2 μ sec	≤ 2 μ sec		
Non-Linearity		≤ 2 % FS	≤ 2 % FS		
Environmental					
Acceleration Sensitivity		.02 psi/g	.014 kPa/(m/s ²)		
Temperature Range(Operating)		-100 to +400 °F	-73 to +204 °C		
Temperature Coefficient of Sensitivity		≤ .03 %/°F	≤ .054 %/°C		
Maximum Flash Temperature		3,000 °F	1,650 °C		
Maximum Vibration		1,000 g pk	9,810 m/s ² pk		
Maximum Shock		5,000 g pk	49,050 m/s ² pk		
Electrical					
Output Polarity(Positive Pressure)		Negative	Negative		
Capacitance		5 pF	5 pF		
Insulation Resistance(at room temp)		≥ 10 ¹² Ohm	≥ 10 ¹² Ohm		
Physical					
Housing Material		17-4 Stainless Steel	17-4 Stainless Steel		
Diaphragm		17-4 Stainless Steel	17-4 Stainless Steel		
Sealing		Epoxy	Epoxy		
Electrical Connector		10-32 Coaxial Jack	10-32 Coaxial Jack		
Weight		.35 oz	10 gm		
				NOTES: [1]Actual slope is dependent upon material properties of cartridge case. [2]For conformational cal. sensitivity will be ±40%. [3]Calibrated range to 35,000 psi. [4]Typical. [5]See PCB Declaration of Conformance PS158 for details.	
				SUPPLIED ACCESSORIES: Model 045B Alignment Guide Model 065A27 Spacer set 0.196" ID Model PCS-2 Calibration of dynamic pressure sensors to full scale measurement range up to100k psi OPTIONAL ACCESSORIES: Model PCS-4 Conformal calibration of 117 series sensor with corresponding 090 series adaptor; using customer supplied cartridge casings (unfired / unprimed)	
				Entered: ND	Engineer: RPF
				Sales: RWM	Approved: RPF
				Spec Number:	
				Date: 09/18/2024	Date: 09/18/2024
				Date: 09/18/2024	Date: 09/18/2024
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				 PCB PIEZOTRONICS Phone: 716-684-0001 AN AMPHENOL COMPANY Fax: 716-684-0987 E-Mail: info@pcb.com 3425 Walden Avenue, Depew, NY 14043	

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.
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