

Model Number 117B-80K		CHARGE OUTPUT PRESSURE SENSOR		Revision: T ECN #: 55204	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 20 %)(for straight oil)		0.14 pC/psi	0.021 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		20 to 60 kpsi	138,000 to 414,000 kPa		
Maximum Pressure		80 kpsi	552,000 kPa		
Resonant Frequency		≥ 200 kHz	≥ 200 kHz		
Rise Time(Reflected)		≤ 2 μ sec	≤ 2 μ sec		
Non-Linearity		≤ 2 % FS	≤ 2 % FS		
Environmental					
Acceleration Sensitivity		0.02 psi/g	0.14 kPa/(m/s ²)		
Temperature Range(Operating)		-100 to +400 °F	-73 to +204 °C		
Temperature Coefficient of Sensitivity		≤ 0.03 %/°F	≤ 0.054 %/°C		
Maximum Flash Temperature		3,000 °F	1,650 °C		
Maximum Vibration		1,000 g pk	9,810 m/s ² pk		
Maximum Shock		20,000 g pk	196 200 m/s ² pk		
Electrical					
Output Polarity(Positive Pressure)		Negative	Negative		
Capacitance		9 pF	9 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		0.45 oz	13 gm		

NOTES:

[1]Actual slope is dependent upon material properties of cartridge case.

[2]For conformal cal. sensitivity will be ±40%.

[3]Calibrated range to 60,000 psi.

[4]Typical.

[5]See PCB Declaration of Conformance PS158 for details.

SUPPLIED ACCESSORIES:

Model 045B Alignment Guide
Model 065A19 Spacer set, 0.250" 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:
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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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