Model Number	ICP® FORCE SENSOR	Revision: K
222B		ECN #: 45758

Performance	**ENGLISH**	**SI**	
Sensitivity(± 15 %)	0.90 mV/lb	202.33 mV/kN	
Measurement Range(Compression)	6000 lb	26.69 kN	
Measurement Range(Tension)	2500 lb	11.12 kN	
Maximum Static Force(Compression)	6000 lb	26.69 kN	
Maximum Static Force(Tension)	2800 lb	12.46 kN	
Broadband Resolution(1 to 10,000 Hz)	0.2 lb-rms	0.8896 N-rms	[1]
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	[2]
Upper Frequency Limit	12 kHz	12 kHz	[3]
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Electrical			
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Physical			
Stiffness	3 lb/µin	0.53 kN/µm	[1]
Size (Diameter x Height)	0.870 in x 1.620 in	22.1 mm x 41.51 mm	
Weight	2 oz	58 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Side	Side	
Mounting Thread	3/8 - 24 Female	3/8 - 24 Female	

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 Group, Inc.

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.

J - Ground Isolated		
M - Metric Mount		
Mounting Thread		M10 x 1.00 Female
N - Negative Output Polarity		
Output Polarity(Compression)	Negative	Negative
W - Water Resistant Cable		
Electrical Connector	Sealed Cable	Sealed Cable
Electrical Connection Position	Side	Side

NOTES:
[1]Typical.
[2]Calculated from discharge time constant.
[3]Estimated using rigid body dynamics calculations.
[4]Zero-based, least-squares, straight line method.

Entered: LK	Engineer: APB	Sales: KWW	Approved: APB	Spec Number:
Date: 7/28/2016	Date: 7/28/2016	Date: 7/28/2016	Date: 7/28/2016	1249

PCB PIEZOTRONICS
3425 Walden Avenue, Depew, NY 14043
Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com