Model Number	CHARGE OUTPUT FORCE SENSOR	Revision: F
231B		ECN #: 40706

Performance	ENGLISH	SI	
Sensitivity(± 15 %)	18 pC/lb	4047 pC/kN	
Measurement Range(Compression)	≤ 5000 lb	≤ 22.24 kN	
Measurement Range(Tension)	≤ 1000 lb	≤ 4.448 kN	
Maximum Static Force(Compression)	5500 lb	24.47 kN	
Maximum Static Force(Tension)	1200 lb	5.338 kN	
Upper Frequency Limit	15 kHz	15 kHz	[2][3]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Environmental			
Temperature Range	-100 to +400 °F	-73 to +204 °C	
Temperature Coefficient of Sensitivity	≤ 0.01 %/°F	≤ 0.018 %/°C	
Electrical			
Capacitance	≥ 12 pF	≥ 12 pF	[1]
Insulation Resistance	≥ 10^{12} Ohm	≥ 10^{12} Ohm	
Physical			
Stiffness	2 lb/µin	0.35 kN/µm	[1]
Size (Diameter x Height)	0.65 in x 1.25 in	16.51 mm x 31.75 mm	
Weight	1.1 oz	31 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	1/4-28 Female	No Metric Equivalent	

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	No English Equivalent	M6 x 0.75 Female

P - Positive Output Polarity

W - Water Resistant Cable

Electrical Connection Position	Side	Side

NOTES:

[1] Typical.
[2] Estimated using rigid body dynamics calculations.
[3] Low frequency response and system noise dependent on choice of external signal conditioning electronics.
[4] Zero-based, least-squares, straight line method.

Entered: AP	Engineer: JDK	Sales: KWW	Approved: APB	Spec Number:
Date: 3/18/2013	Date: 3/18/2013	Date: 3/18/2013	Date: 3/18/2013	**1238**

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