

Model Number 216B	CHARGE OUTPUT FORCE SENSOR	Revision: H ECN #: 48681
-----------------------------	-----------------------------------	-----------------------------

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 15 %)	18 pC/lb	4047 pC/kN	
Measurement Range(Compression)	≤ 80,000 lb	≤ 355.86 kN	
Maximum Static Force(Compression)	90,000 lb	400.32 kN	
Upper Frequency Limit	40 kHz	40 kHz	[2][3]
Non-Linearity	≤ 1.25 % FS	≤ 1.25 % FS	[4]
Environmental			
Temperature Range	-100 to +400 °F	-73 to +204 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Electrical			
Capacitance	80 pF	80 pF	[1]
Insulation Resistance	≥ 1E12	≥ 1E12	
Physical			
Preload	16,000 lb	71.172 kN	
Stiffness	74 lb/μin	13 kN/μm	[1]
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	2.05 in x 0.590 in x 1 in x 1.750 in	52.9 mm x 15 mm x 26 mm x 44.5 mm	
Size (ID)(Hole Diameter)	1.025 in	26.04 mm	
Size (OD)(Sensor)	2.05 in	52 mm	
Weight	5.48 oz	155 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	

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.		
M - Metric Mount		
Supplied Accessory : Model 080A82 Assembly Lubricant		
Supplied Accessory : Model 082B06 Anti-Friction Washer		
Supplied Accessory : Model M081A16 Mounting Stud, M22 x 2.00 x 1.900, BeCu		
Supplied Accessory : Model M083B06 Pilot Bushing		
P - Positive Output Polarity		
Output Polarity(Compression)	Positive	Positive
W - Water Resistant Cable		
Electrical Connector	Molded Integral Cable	Molded Integral 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.

SUPPLIED ACCESSORIES:
 Model 080A82 Assembly Lubricant
 Model 081A16 Mounting Stud, 7/8-14 x 1.900, BeCu
 Model 082B06 Anti-Friction Washer
 Model 083B06 Pilot bushing (for Models 206C and 216B)

Entered: LK	Engineer: RPF	Sales: KK	Approved: RPF	Spec Number:
Date: 9/19/2018	Date: 9/19/2018	Date: 9/19/2018	Date: 9/19/2018	216-2010-80

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