Model Number	ICP® FORCE SENSOR							Revision: F	
205C						ECN #: 48681			
Performance	ENGLISH	<u>SI</u>				PTIONAL VERSION	-		
Sensitivity(± 15 %)	0.08 mV/lb	18.0 mV/kN						or the standard model	
Measurement Range(Compression)	60,000 lb	266.9 kN		е	xcept where noted	below. More than on	e option may be	usea.	
Maximum Static Force(Compression)	70,000 lb	311.4 kN	F41	M Matria Marra	L				
Broadband Resolution(1 to 10,000 Hz)	1 lb-rms	4.45 N-rms	[1]	M - Metric Mount Supplied Accessory: Model M081A15 Mounting Stud, M16 x 1.50 x 1.650, BeCu (1)) DoC: (1)	
Low Frequency Response	0.0003 Hz	0.0003 Hz	[2]	Supplied Accessory: Model M083B05 Pilot Bushing (1)), BeCu (1)	
Upper Frequency Limit	50 kHz	50 kHz	[3]	Supplied Accessory : Woder Woodboot Flot Bushing (1)					
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]	N - Negative Out	nut Polarity				
Environmental						No	andi: .a	Magativa	
Temperature Range	-65 to +250 °F	-54 to +121 °C		Output Polarity(C	ompression)	Neg	gative	Negative	
Temperature Coefficient of Sensitivity	≤ 0.10 %/°F	≤ 0.18 %/°C		W Water Breit	L O . b				
Electrical				W - Water Resist					
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec		Electrical Connec				Sealed Cable	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC		Electrical Connec	ction Position	S	Side	Side	
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							
Spectral Noise(1 Hz)	0.0981 lb/√Hz	0.44 N/√Hz	[1]						
Spectral Noise(10 Hz)	0.0306 lb/√Hz	0.14 N√Hz	[1]	NOTES:					
Spectral Noise(100 Hz)	0.00709 lb/√Hz	0.032 N/√Hz	[1]	 [1] Typical. [2] Calculated from discharge time constant. [3] Estimated using rigid body dynamics calculations. [4] Zero-based, least-squares, straight line method. 					
Spectral Noise(1 kHz)	0.00192 lb/√Hz	0.00857 N/√Hz	[1]						
Output Polarity(Compression)	Positive	Positive							
Physical						ance PS023 for deta	ils		
Preload	12,000 lb	53.379 kN		[0] 000 : 02 200		a			
Stiffness	40 lb/µin	7 kN/µm	[1]						
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	1.580 in x 0.510 in	40.13 mm x 12.95 mm x							
	x .75 in x 1.375 in	20 mm x 34.93 mm							
Size (ID)(Hole Diameter)	0.830 in	21.08 mm							
Size (OD)(Sensor)	1.580 in	40.13 mm		SUPPLIED ACCESSORIES:					
Weight	2.7 oz	77 gm		Model 080A82 Assembly Lubricant (1) Model 081A15 Mounting Stud, 5/8-18 x 1.650, BeCu (1) Model 082B05 Anti-friction washer (for Models 205B and 215B) (1) Model 083B05 Pilot bushing (for Models 205C and 215B) (1)					
Housing Material	Stainless Steel	Stainless Steel							
Sealing	Hermetic	Hermetic							
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack							
Electrical Connection Position	Side	Side							
				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	5758	
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Phone: 716-684-0001 Fax: 716-684-0987

E-Mail: info@pcb.com

