



Model Number 205C		ICP® FORCE SENSOR		Revision: E ECN #: 26908	
<b>Performance</b>		<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b>	
Sensitivity(± 15 %)		0.08 mV/lb	17.98 mV/kN	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Measurement Range(Compression)		60,000 lb	266.9 kN		
Maximum Static Force(Compression)		70,000 lb	311.4 kN		
Broadband Resolution(1 to 10,000 Hz)		1 lb-rms	4.45 N-rms	[1] <b>M</b> - Metric Mount	
Low Frequency Response		0.0003 Hz	0.0003 Hz	[2] Supplied Accessory : Model M081A15 Mounting Stud, M16 x 1.50 x 1.650, BeCu (1)	
Upper Frequency Limit		50 kHz	50 kHz	[3] Supplied Accessory : Model M083B05 Pilot Bushing (1)	
Non-Linearity		≤ 1.5 % FS	≤ 1.5 % FS	[4] <b>N</b> - Negative Output Polarity	
<b>Environmental</b>				Output Polarity(Compression)	Negative      Negative
Temperature Range		-65 to +250 °F	-54 to +121 °C	<b>W</b> - Water Resistant Cable	
Temperature Coefficient of Sensitivity		≤ 0.10 %/°F	≤ 0.18 %/°C	Electrical Connector	Sealed Cable      Sealed Cable
<b>Electrical</b>				Electrical Connection Position	Side      Side
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		
Spectral Noise(1 Hz)		0.0981 lb/√Hz	0.44 N/√Hz	[1] <b>NOTES:</b>	
Spectral Noise(10 Hz)		0.0306 lb/√Hz	0.14 N/√Hz	[1] [1] Typical.	
Spectral Noise(100 Hz)		0.00709 lb/√Hz	0.032 N/√Hz	[1] [2] Calculated from discharge time constant.	
Spectral Noise(1 kHz)		0.00192 lb/√Hz	0.00857 N/√Hz	[1] [3] Estimated using rigid body dynamics calculations.	
Output Polarity(Compression)		Positive	Positive	[4] Zero-based, least-squares, straight line method.	
<b>Physical</b>				[5] See PCB Declaration of Conformance PS023 for details.	
Preload		12,000 lb	53.379 kN		
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 x .75 in x 1.375 in	40.13 mm x 12.95 mm x 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		
Weight		2.7 oz	77 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		
					
<p>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.</p>					
				<p><b>SUPPLIED ACCESSORIES:</b>          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)</p>	
Entered: BLS		Engineer: MJK		Sales: DPC	
Date: 7-20-07		Date: 7-19-07		Date: 7-17-07	
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