



Model Number	ICP® FORCE SENSOR		Revision: G
200C50			ECN #: 30055
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b> Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Sensitivity(± 15 %)	0.10 mV/lb	22.48 mV/kN	
Measurement Range(Compression)	50,000 lb	222.4 kN	<b>N - Negative Output Polarity</b> Output Polarity(Compression)                      Negative                      Negative
Maximum Static Force(Compression)	75,000 lb	333.6 kN	
Broadband Resolution(1 to 10,000 Hz)	1 lb-rms	4.45 N-rms	<b>W - Water Resistant Cable</b> Electrical Connector                      Sealed Cable                      Sealed Cable Electrical Connection Position                      Side                      Side
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	
Upper Frequency Limit	30 kHz	30 kHz	
Non-Linearity	≤1 % FS	≤1 % FS	
<b>Environmental</b>			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤0.15 %/°F	≤0.27 %/°C	
<b>Electrical</b>			
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)	0.10 lb/√Hz	0.45 N/√Hz	[1]
Spectral Noise(10 Hz)	0.0304 lb/√Hz	0.14 N/√Hz	[1]
Spectral Noise(100 Hz)	0.00807 lb/√Hz	0.0360 N/√Hz	[1]
Spectral Noise(1 kHz)	0.00193 lb/√Hz	0.00862 N/√Hz	[1]
Output Polarity(Compression)	Positive	Positive	
<b>Physical</b>			
Stiffness	97 lb/μin	17 kN/μm	[1]
Size (Diameter x Height)	2.125 in x 0.750 in	53.9 mm x 19.0 mm	
Weight	9.9 oz	280 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	Not Applicable	
<b>NOTES:</b> [1] Typical. [2] Calculated from discharge time constant. [3] Estimated using rigid body dynamics calculations. [4] Zero-based, least-squares, straight line method. [5] See PCB Declaration of Conformance PS023 for details.			
<b>SUPPLIED ACCESSORIES:</b> Model 080A81 Thread Locker (1) Model 081A06 Mounting stud, 1/4-28 to 1/4-28 x .37 in. long, BeCu, no shoulder (1) Model 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (1) Model 084A36 Impact cap, convex (for Model 200C50) (1) Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)			
Entered: BLS	Engineer: BM	Sales: RWM	Approved: EB
Date: 2/10/09	Date: 2/4/09	Date: 2/4/09	Date: 2/9/09
			Spec Number: 5580
 [5]			
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.		<b>FORCE / TORQUE DIVISION</b> 3425 Walden Avenue, Depew, NY 14043	
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