

Model Number 201B01		ICP® FORCE SENSOR				Revision: D ECN #: 48681	
Performance		ENGLISH		SI		OPTIONAL VERSIONS	
Sensitivity(± 15 %)		500 mV/lb		112,405 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)		10 lb		0.0445 kN			
Maximum Static Force(Compression)		60 lb		0.267 kN			
Broadband Resolution(1 to 10,000 Hz)		0.0002 lb-rms		0.0008896 N-rms		N - Negative Output Polarity	
Low Frequency Response(-5 %)		0.01 Hz		0.01 Hz		Output Polarity(Compression)	
Upper Frequency Limit		90 kHz		90 kHz		Negative	
Non-Linearity		≤ 1 % FS		≤ 1 % FS		Negative	
Environmental						W - Water Resistant Cable	
Temperature Range		-65 to +250 °F		-54 to +121 °C		Electrical Connector	
Temperature Coefficient of Sensitivity		≤ 0.03 %/°F		≤ 0.054 %/°C		Sealed Cable	
Electrical						Side	
Discharge Time Constant(at room temp)		≥ 50 sec		≥ 50 sec		Sealed Cable	
Excitation Voltage		20 to 30 VDC		20 to 30 VDC		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			
Output Polarity(Compression)		Positive		Positive			
Physical							
Preload		60 lb		0.267 kN			
Stiffness		12 lb/µin		2.1 kN/µm			
Size (Diameter x Height x Bolt Diameter x Sensing Surface)		0.650 in x 0.310 in x 0.25 in x 0.50 in		16.5 mm x 7.9 mm x 6 mm x 12.7 mm			
Size (ID)(Hole Diameter)		0.251 in		6.38 mm			
Size (OD)(Sensor)		0.650 in		16.51 mm			
Weight		0.35 oz		10 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			