

Model Number
200B02

ICP® FORCE SENSOR

Revision: H
ECN #: 31200

	ENGLISH	SI	
Performance			
Sensitivity(± 15 %)	50 mV/lb	11,241 mV/kN	
Measurement Range(Compression)	100 lb	0.4448 kN	
Maximum Static Force(Compression)	600 lb	2.669 kN	
Broadband Resolution(1 to 10,000 Hz)	0.002 lb-rms	0.008896 N-rms	[1]
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz	[2]
Upper Frequency Limit	75 kHz	75 kHz	[3]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Electrical			
Discharge Time Constant(at room temp)	≥ 500 sec	≥ 500 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	
Output Polarity(Compression)	Positive	Positive	
Physical			
Stiffness	11 lb/μin	1.9 kN/μm	[1]
Size (Diameter x Height x Sensing Surface)	0.650 in x 0.360 in x 0.500 in	16.51 mm x 9.14 mm x 12.7 mm	
Weight	0.5 oz	14 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	10-32 Female	10-32 Female	

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.

N - Negative Output Polarity		
Output Polarity(Compression)	Negative	Negative
W - Water Resistant Cable		
Electrical Connector	Sealed Cable	Sealed Cable
Electrical Connection Position	Side	Side

NOTES:

[1] Typical.
 [2] Zero-based, least-squares, straight line method.
 [3] Estimated using rigid body dynamics calculations.
 [4] Calculated from discharge time constant.
 [5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A81 Thread Locker (1)
 Model 081B05 Mounting Stud (10-32 to 10-32) (1)
 Model 084A83 Impact Pad (1)
 Model M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (1)

Entered: JH	Engineer: JGR	Sales: KWW	Approved: EB	Spec Number:
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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.
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