208A11			ICP® FORCE	
Performance		<u>ENGLISH</u>	<u>SI</u>	
Sensitivity(± 15 %)		500 mV/lb	112,404 mV/kN	
Measurement Range(Compression)		10 lb	0.04448 kN	
Measurement Range(Tension)		10 lb	0.04448 kN	
Maximum Static Force(Compression)		60 lb	0.270 kN	
Maximum Static Force(Tension)		60 lb	0.270 kN	
Broadband Resolution(1 to 10,000 Hz) Low Frequency Response(-5 %)		0.0001 lb-rms 0.01 Hz	0.0004448 N-rms 0.01 Hz	
Upper Frequency Limit		36,000 Hz	36,000 Hz	
Non-Linearity		≤ 1 % FS	≤ 1 % FS	
Environmental		05.1050.05	541404.00	
Temperature Range		-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity		≤ 0.05 %/°F	≤ 0.09 %/°C	
Electrical				
Discharge Time Constar	nt(at room temp)	≥ 50 sec	≥ 50 sec	
Excitation Voltage		18 to 30 VDC	18 to 30 VDC	
Constant Current Excitat	tion	2 to 20 mA	2 to 20 mA	
Output Impedance		≤ 100 Ohm	≤ 100 Ohm	
Output Bias Voltage Output Polarity(Compres	ssion)	8 to 12 VDC Positive	8 to 12 VDC Positive	
Physical				
Stiffness		6 lb/µin	1.05 kN/µm	
Size (Hex x Height)		0.625 in x 1.17 in	15.88 mm x 29.7 mm	
Weight		0.80 oz	22.7 gm	
Housing Material		Stainless Steel	Stainless Steel	
Sealing		Epoxy	Epoxy	
Electrical Connector		10-32 Coaxial Jack	10-32 Coaxial Jack	



**Electrical Connection Position** 

Model Number

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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## ICP® FORCE SENSOR

[2] [3] [4]

[1]

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## **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

## NOTES:

[1]Sensor contains protected electronics which may cause long 'turn-on' times.

[2]Typical.
[3]Calculated from discharge time constant.

[4]Estimated using rigid body dynamics calculations.

[5]Zero-based, least-squares, straight line method.

[6]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 084A03 Impact Cap (1)

Model M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (1)

Entered: LK	Engineer: MJK	Sales: KWW	Approved: APB	Spec Number:
Date: 3/30/2016	Date: 3/30/2016	Date: 3/30/2016	Date: 3/30/2016	208-1110-80



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