

Model Number 218A11	<b>CHARGE OUTPUT FORCE SENSOR</b>	Revision: G ECN #: 45224
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 15 %)	18 pC/lb	4046 pC/kN	
Measurement Range(Compression)	5000 lb	22.24 kN	
Measurement Range(Tension)	500 lb	2.224 kN	
Maximum Static Force(Compression)	8000 lb	35.39 kN	
Maximum Static Force(Tension)	750 lb	3.336 kN	
Upper Frequency Limit	36,000 Hz	36,000 Hz	[2][3]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
<b>Environmental</b>			
Temperature Range	-300 to +400 °F	-184 to 204 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
<b>Electrical</b>			
Capacitance	14 pF	14 pF	[1]
Insulation Resistance	≥ 10 <sup>12</sup> Ohm	≥ 10 <sup>12</sup> Ohm	
Output Polarity(Compression)	Negative	Negative	
<b>Physical</b>			
Stiffness	6 lb/μin	1.05 kN/μm	[1]
Size (Hex x Height)	0.625 in x 1.17 in	15.88 mm x 29.72 mm	
Weight	0.71 oz	20 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Epoxy	Epoxy	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Electrical Connection Position	Axial	Axial	
Mounting Thread	M7 x 0.75 - 6g	M7 x 0.75 - 6g	

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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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.		
P - Positive Output Polarity Output Polarity(Compression)	Positive	Positive
W - Water Resistant Cable Electrical Connector Electrical Connection Position	Integral Cable Side	Integral Cable Side

**NOTES:**  
 [1]Typical.  
 [2]Estimated using rigid body dynamics calculations.  
 [3]Low frequency response and system noise dependent on choice of external signal conditioning electronics.  
 [4]Zero-based, least-squares, straight line method.

**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:
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