Model Number	CHARGE OUTPUT FORCE SENSOR	Revision: D
232B		ECN #: 15530

Performance	ENGLISH	SI	
Sensitivity (± 15 %)	18 pC/lb	4047 pC/kN	
Measurement Range (Compression)	6000 lb	26.69 kN	
Measurement Range (Tension)	2500 lb	11.12 kN	
Maximum Static Force (Compression)	7000 lb	31.14 kN	
Maximum Static Force (Tension)	2800 lb	12.45 kN	
Upper Frequency Limit	12 kHz	12 kHz	[2][3]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Environmental			
Temperature Range	-100 to +400 °F	-73 to +204 °C	
Temperature Coefficient of Sensitivity	≤ 0.01 %/°F	≤ 0.018 %/°C	
Electrical			
Capacitance	20 pF	20 pF	[1]
Insulation Resistance	$\geq 10^{12}$ ohms	$\geq 10^{12}$ ohms	
Output Polarity (Compression)	Negative	Negative	
Physical			
Stiffness	3 lb/µin	0.53 kN/µm	[1]
Size (Diameter x Height)	0.870 in x 1.620 in	22.1 mm x 41.15 mm	
Weight	2 oz	58 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	3/8 - 24 Female	No Metric Equivalent	

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.

J - Ground Isolated		
M - Metric Mount		
Mounting Thread	No English Equivalent	M10 x 1.00 Female
P - Positive Output Polarity		
Output Polarity (Compression)	Positive	Positive
W - Water Resistant Cable		
Electrical Connection Position	Side	Side

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

Charge Force Sensor

Entered: KAB	Engineer: JOR	Sales: JGM	Approved: JMB	Spec Number:
Date: 12/16/03	Date: 12/16/03	Date: 12/17/03	Date: 12/17/03	1248

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