

Model Number <b>1630-03C</b>		<b>STRAIN GAGE LOAD CELL</b>		Revision: D ECN #: 43826
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Measurement Range	50 lb	222 N	[5]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Sensitivity(± 10 %)	2 mV/V	2 mV/V	[6]	
Non-Linearity	≤ 0.05 % FS	≤ 0.05 % FS		
Hysteresis	≤ 0.03 % FS	≤ 0.03 % FS		
Non-Repeatability	≤ 0.02 %RO	≤ 0.02 %RO		
Resonant Frequency	1.5 kHz	1.5 kHz		
Creep(in 20 minutes)	≤ 0.08 %	≤ 0.08 %		
<b>Environmental</b>				
Overload Limit	75 lb	333 N		
Load Limit(Side Force, F <sub>X</sub> or F <sub>Y</sub> )	5 lb	25 N	[3]	
Load Limit(Bending Moment, M <sub>X</sub> or M <sub>Y</sub> )	10 in-lb	1 Nm	[3]	
Load Limit(Axial Torque, M <sub>Z</sub> )	10 in-lb	1 Nm	[3]	
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C		
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C		
Temperature Effect on Output(Maximum)	± 0.0008 %Reading/°F	± 0.0015 %Reading/°C	[4]	
Temperature Effect on Zero Balance(Maximum)	± 0.0015 %FS/°F	± 0.027 %FS/°C	[4]	
<b>Electrical</b>				
Bridge Resistance	350 Ohm	350 Ohm	[1]	
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	
Insulation Resistance	>5x10 <sup>9</sup> Ohm	>5x10 <sup>9</sup> Ohm		
Zero Balance	± 1 % FS	± 1 % FS		
Output Polarity	+Tension	+Tension		
<b>Physical</b>				
Size (Length x Height x Width)	2.00 in x 2.50 in x 0.625 in	51 mm x 64 mm x 16 mm	[7]	
Weight	0.23 lb	1.04 g		
Mounting Thread	1/4-28 thread	No Metric Equivalent		
Housing Material	Aluminum	Aluminum		
Sensing Element	Strain Gage	Strain Gage		
Deflection at Full Scale Capacity	0.002 in	0.05 mm		
Electrical Connector	10 ft - Integrated Cable	10 ft - Integrated Cable		
Electrical Connection Position	Side	Side		
<p><i>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.</i></p>				
				<p><b>PCB Load &amp; Torque, Inc.</b>  <b>24350 Indoplex Circle</b>  <b>Farmington Hills, MI 48335</b>  <b>UNITED STATES</b>  <b>Phone: 866-684-7107</b>  <b>Fax: 716-684-0987</b>  <b>E-Mail: <a href="mailto:ltinfo@pcbloadtorque.com">ltinfo@pcbloadtorque.com</a></b>  <b>Web site:</b>  <b><a href="http://www.pcbloadtorque.com">http://www.pcbloadtorque.com</a></b></p>
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