


Model Number <b>M1631-06C</b>		<b>STRAIN GAGE LOAD CELL</b>			Revision: E ECN #: 43825											
<b>Performance</b>		<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>											
Measurement Range	4496 lb	20 kN	[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	≤ 0.15 % FS	≤ 0.15 % FS														
Hysteresis	≤ 0.15 % FS	≤ 0.15 % FS														
Non-Repeatability	≤ 0.05 %RO	≤ 0.05 %RO														
Resonant Frequency	2.5 kHz	2.5 kHz														
Creep(in 20 minutes)	≤ 0.08 %	≤ 0.08 %														
<b>Environmental</b>				<b>NOTES:</b> [1]Nominal. [2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS. [3]Singularly applied, i.e. no other extraneous loads. [4]Over compensated operating temperature range. [5]FS - Full Scale. [6]RO - Rated Output. [7]See Outline Drawing 46141 for Complete Dimensions												
Overload Limit	6745 lb	30 kN														
Load Limit(Side Force, F <sub>X</sub> or F <sub>Y</sub> )	450 lb	2000 N	[3]													
Load Limit(Bending Moment, M <sub>X</sub> or M <sub>Y</sub> )	1124 in-lb	127 Nm	[3]													
Load Limit(Axial Torque, M <sub>Z</sub> )	1124 in-lb	127 Nm	[3]													
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C														
Temperature Range(Compensated)	+75 to +150 °F	+21 to +65 °C														
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0036 %Reading/°C	[4]	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Entered: AP</td> <td>Engineer: PE</td> <td>Sales: JC</td> <td>Approved: JSD</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td>Date: 2/16/2015</td> <td style="text-align: center;"><b>46017</b></td> </tr> </table>			Entered: AP	Engineer: PE	Sales: JC	Approved: JSD	Spec Number:	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	<b>46017</b>
Entered: AP	Engineer: PE	Sales: JC	Approved: JSD				Spec Number:									
Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	<b>46017</b>												
Temperature Effect on Zero Balance(Maximum)	± 0.0015 %FS/°F	± 0.027 %FS/°C	[4]													
<b>Electrical</b>				 <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: linfo@pcbloadtorque.com</b>  <b>Web site:</b>  <b>http://www.pcbloadtorque.com</b></p>												
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)	2.50 in x 3.50 in x 1.50 in	64 mm x 89 mm x 38 mm	[7]													
Weight	2.85 lb	1.3 g														
Housing Material	Nickel Plated Steel	Nickel Plated Steel														
Sensing Element	Strain Gage	Strain Gage														
Deflection at Full Scale Capacity	0.003 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>																