


Model Number <b>M1630-03C</b>	<b>STRAIN GAGE LOAD CELL</b>			Revision: D ECN #: 43825										
<b>Performance</b> Measurement Range Sensitivity(± 10 %) Non-Linearity Hysteresis Non-Repeatability Resonant Frequency Creep(in 20 minutes)	<u>ENGLISH</u> 45 lb 2 mV/V ≤ 0.15 % FS ≤ 0.15 % FS ≤ 0.05 %RO 1.5 kHz ≤ 0.08 %	<u>SI</u> 200 N 2 mV/V ≤ 0.15 % FS ≤ 0.15 % FS ≤ 0.05 %RO 1.5 kHz ≤ 0.08 %	[5] [6]	<b>OPTIONAL VERSIONS</b> Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.										
<b>Environmental</b> Overload Limit Load Limit(Side Force, F <sub>X</sub> or F <sub>Y</sub> ) Load Limit(Bending Moment, M <sub>X</sub> or M <sub>Y</sub> ) Load Limit(Axial Torque, M <sub>Z</sub> ) Temperature Range(Operating) Temperature Range(Compensated) Temperature Effect on Output(Maximum) Temperature Effect on Zero Balance(Maximum)	67.5 lb 4.5 lb 10 in-lb 10 in-lb 0 to +200 °F +75 to +150 °F ± 0.002 %Reading/°F ± 0.0015 %FS/°F	300 N 20 N 1 Nm 1 Nm -18 to +93 °C +21 to +65 °C ± 0.0036 %Reading/°C ± 0.027 %FS/°C	[3] [3] [3] [4] [4]		<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 46140 for Complete Dimensions									
<b>Electrical</b> Bridge Resistance Excitation Voltage(Recommended) Insulation Resistance Zero Balance Output Polarity	350 Ohm 10 VDC >5x10 <sup>9</sup> Ohm ≤ 1 % FS +Tension	350 Ohm 10 VDC >5x10 <sup>9</sup> Ohm ≤ 1 % FS +Tension	[1] [2]	<table border="1"> <tr> <td data-bbox="1134 592 1291 641">Entered: AP</td> <td data-bbox="1291 592 1449 641">Engineer: PE</td> <td data-bbox="1449 592 1606 641">Sales: JC</td> <td data-bbox="1606 592 1764 641">Approved: JSD</td> <td data-bbox="1764 592 1944 641">Spec Number:</td> </tr> <tr> <td data-bbox="1134 641 1291 682">Date: 2/16/2015</td> <td data-bbox="1291 641 1449 682">Date: 2/16/2015</td> <td data-bbox="1449 641 1606 682">Date: 2/16/2015</td> <td data-bbox="1606 641 1764 682">Date: 2/16/2015</td> <td data-bbox="1764 641 1944 682" style="text-align: center;"><b>46001</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
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Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	Date: 2/16/2015	<b>46001</b>										
<b>Physical</b> Size (Length x Height x Width) Weight Housing Material Sensing Element Deflection at Full Scale Capacity Electrical Connector Electrical Connection Position	2.00 in x 2.50 in x 0.625 in 0.23 lb Aluminum Strain Gage 0.002 in 10 ft - Integrated Cable Side	51 mm x 64 mm x 16 mm 104 g Aluminum Strain Gage 0.05 mm 10 ft - Integrated Cable Side	[7]	<div style="text-align: center;">  <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> </div>										
<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>														