


Model Number <b>M1102-03A</b>	<b>STRAIN GAGE LOAD CELL</b>			Revision: D ECN #: 43815										
<b>Performance</b> Measurement Range Sensitivity(± 10 %) Non-Linearity Hysteresis Non-Repeatability Resonant Frequency	<b>ENGLISH</b> 225 lb 2 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.02 % FS 5.4 kHz	<b>SI</b> 1000 N 2 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.02 % FS 5.4 kHz	[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)	338 lb 225 lb 225 in-lb 65 in-lb -65 to +200 °F +70 to +170 °F ± 0.002 %Reading/°F ± 0.002 %FS/°F	1500 N 1000 N 25.4 Nm 7 Nm -54 to +93 °C +21 to +77 °C ± 0.0036 %Reading/°C ± 0.0036 %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.									
<b>Electrical</b> Bridge Resistance Excitation Voltage(Recommended) Insulation Resistance Zero Balance Output Polarity	700 Ohm 10 VDC >5x10 <sup>9</sup> Ohm ≤ 1 % FS +Tension	700 Ohm 10 VDC >5x10 <sup>9</sup> Ohm ≤ 1 % FS +Tension	[1] [2]	<b>OPTIONAL ACCESSORIES:</b> Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE										
<b>Physical</b> Size (Diameter x Height) Weight Mounting Thread Housing Material Sensing Element Deflection at Full Scale Capacity Electrical Connector Electrical Connection Position	2.75 in x 1.5 in 0.67 lb No English Equivalent Painted Aluminum Strain Gage 0.003 in PT02E-10-6P Side	69.9 mm x 38.1 mm 304 g M6 x 1-6H Painted Aluminum Strain Gage 0.08 mm PT02E-10-6P Side		<table border="1"> <tr> <td data-bbox="1144 673 1291 722">Entered: AP</td> <td data-bbox="1291 673 1459 722">Engineer: PE</td> <td data-bbox="1459 673 1627 722">Sales: JC</td> <td data-bbox="1627 673 1795 722">Approved: JSD</td> <td data-bbox="1795 673 1946 722">Spec Number:</td> </tr> <tr> <td data-bbox="1144 722 1291 771">Date: 2/17/2015</td> <td data-bbox="1291 722 1459 771">Date: 2/17/2015</td> <td data-bbox="1459 722 1627 771">Date: 2/17/2015</td> <td data-bbox="1627 722 1795 771">Date: 2/17/2015</td> <td data-bbox="1795 722 1946 771" style="text-align: center;"><b>48118</b></td> </tr> </table>	Entered: AP	Engineer: PE	Sales: JC	Approved: JSD	Spec Number:	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	<b>48118</b>
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<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>				<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: ltinfo@pcbloadtorque.com</b>  <b>Web site:</b>  <b>http://www.pcbloadtorque.com</b></p> </div>										