


Model Number <b>1102-03A</b>	<b>STRAIN GAGE LOAD CELL</b>			Revision: H ECN #: 43815										
<b>Performance</b> Measurement Range Sensitivity(± 10 %) Non-Linearity Hysteresis Non-Repeatability Eccentric Load Sensitivity Resonant Frequency Creep(in 20 minutes) Static Error Band	<u>ENGLISH</u> 200 lb 2 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.02 % FS ≤ .25 %/in 5.4 kHz ≤ .025 % ≤ .05 % FS	<u>SI</u> 890 N 2 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.02 % FS ≤ .25 %/25.4mm 5.4 kHz ≤ .025 % ≤ .05 % FS	[5] [6]	<p style="text-align: center;"><b>OPTIONAL VERSIONS</b></p> <p>Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.</p>										
<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)	300 lb 200 lb 200 in-lb 65 in-lb -65 to +200 °F +70 to +170 °F ± 0.0015 %Reading/°F ± 0.0008 %FS/°F	1334 N 890 N 23 Nm 7 Nm -54 to +93 °C +21 to +77 °C ± 0.0027 %Reading/°C ± 0.0015 %FS/°C	[3] [3] [3] [4] [4]	<p><b>NOTES:</b></p> <p>[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 51277 for Complete Dimensions</p>										
<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]	<p><b>OPTIONAL ACCESSORIES:</b></p> <p>Model 181-012A PT06A-10-6S(SR)            Model 8311-01-10A CABLE</p>										
<b>Physical</b> Size (Diameter x Height) Weight Mounting Thread Housing Material Sensing Element Deflection at Full Scale Capacity Electrical Connector	2.75 in x 1.5 in 0.67 lb 1/4-28 Female Painted Aluminum Strain Gage 0.003 in PT02E-10-6P	69.9 mm x 38.1 mm 304 g No Metric Equivalent Painted Aluminum Strain Gage 0.08 mm PT02E-10-6P	[7]	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Entered: AP</td> <td style="width: 15%;">Engineer: PE</td> <td style="width: 15%;">Sales: JC</td> <td style="width: 15%;">Approved: JSD</td> <td style="width: 15%;">Spec Number:</td> </tr> <tr> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td>Date: 2/17/2015</td> <td style="text-align: center;"><b>18329</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>18329</b>
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<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>				<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: linfo@pcbloadtorque.com</b>  <b>Web site:</b>  <b>http://www.pcbloadtorque.com</b></p> </div>										