


Model Number 1102-02A	STRAIN GAGE LOAD CELL			Revision: J ECN #: 43815										
Performance Measurement Range Sensitivity(± 10 %) Non-Linearity Hysteresis Non-Repeatability Eccentric Load Sensitivity Resonant Frequency Creep(in 20 minutes) Static Error Band	<u>ENGLISH</u> 100 lb 2 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.02 % FS ≤ .025 %/in 3.8 kHz ≤ .025 % ≤ .05 % FS	<u>SI</u> 445 N 2 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.02 % FS ≤ .025 %/25.4mm 3.8 kHz ≤ .025 % ≤ .05 % FS	[5] [6]	<p style="text-align: center;">OPTIONAL VERSIONS</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>										
Environmental Overload Limit Load Limit(Side Force, F _X or F _Y) Load Limit(Bending Moment, M _X or M _Y) Load Limit(Axial Torque, M _Z) Temperature Range(Operating) Temperature Range(Compensated) Temperature Effect on Output(Maximum) Temperature Effect on Zero Balance(Maximum)	150 lb 100 lb 100 in-lb 65 in-lb -65 to +200 °F +70 to +170 °F ± 0.0015 %Reading/°F ± 0.0008 %FS/°F	667 N 445 N 11 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>NOTES:</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>										
Electrical Bridge Resistance Excitation Voltage(Recommended) Insulation Resistance Zero Balance Output Polarity	700 Ohm 10 VDC >5x10 ⁹ Ohm ≤ 1 % FS +Tension	700 Ohm 10 VDC >5x10 ⁹ Ohm ≤ 1 % FS +Tension	[1] [2]	<p>OPTIONAL ACCESSORIES:</p> <p>Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE</p>										
Physical 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: 40%;">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;">18328</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	18328
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Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	Date: 2/17/2015	18328										
<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>PCB Load & Torque, Inc. 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: linfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com</p> </div>										