


| Model Number M1102-05A | STRAIN GAGE LOAD CELL | | | Revision: C ECN #: 43815 | | | | | | | | | | |
|---|---|---|---------------------------------|--|---|--------------|-----------|---------------|--------------|-----------------|-----------------|-----------------|-----------------|--------------|
| Performance Measurement Range Sensitivity(± 10 %) Non-Linearity Hysteresis Non-Repeatability Resonant Frequency | ENGLISH 28 lb 2 mV/V ≤ 0.1 % FS ≤ 0.1 % FS ≤ 0.05 %RO 2.10 kHz | SI 125 N 2 mV/V ≤ 0.1 % FS ≤ 0.1 % FS ≤ 0.05 %RO 2.10 kHz | [5] [6] | OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. | | | | | | | | | | |
| 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) | 42 lb 28 lb 28 in-lb 35 in-lb -65 to +200 °F +70 to +170 °F ± 0.002 %Reading/°F ± 0.002 %FS/°F | 188 N 125 N 3.1 Nm 4 Nm -54 to +93 °C +21 to +77 °C ± 0.0036 %Reading/°C ± 0.0036 %FS/°C | [3] [3] [3] [4] [4] | | NOTES: [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. | | | | | | | | | |
| 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] | OPTIONAL ACCESSORIES: Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE | | | | | | | | | | |
| Physical 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 1.50 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" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Entered: AP</td> <td style="width: 20%;">Engineer: PE</td> <td style="width: 20%;">Sales: JC</td> <td style="width: 20%;">Approved: JSD</td> <td style="width: 20%;">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;">48115</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 | 48115 |
| Entered: AP | Engineer: PE | Sales: JC | Approved: JSD | Spec Number: | | | | | | | | | | |
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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>PCB Load & Torque, Inc. 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: ltinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com</p> </div> | | | | | | | | | | |