


| Model Number 1408-02ADB | FATIGUE RATED LOW PROFILE LOAD CELL, DUAL BRIDGE | | | Revision: E ECN #: 43840 | | | | | | | | | | |
|---|--|---|--|---|-------------|--------------|------------|---------------|--------------|-----------------|-----------------|-----------------|-----------------|--------------|
| Performance Measurement Range(100 x 10 ⁶ cycles) Sensitivity(± 10 %) Non-Linearity Hysteresis Non-Repeatability Eccentric Load Sensitivity Resonant Frequency Side Load Sensitivity Creep(in 20 minutes) Static Error Band | <u>ENGLISH</u> 50 klb 2.0 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.02 %RO 0.1 %/in 18 kHz 0.1 %/in 0.025 % ≤ 0.05 % FS | <u>SI</u> 222 kN 2.0 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.02 %RO 0.1 %/25.4mm 18 kHz 0.1 %/25.4mm 0.025 % ≤ 0.05 % FS | [5][6] [7][1] | 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) | 150 klb 50 klb 50k in-lb 50k in-lb -65 to +200 °F +15 to +115 °F ± 0.0008 %Reading/°F ± 0.0008 %FS/°F | 667 kN 222 kN 5649 Nm 5649 Nm -54 to +93 °C -9 to +46 °C ± 0.0018 %Reading/°C ± 0.0018 %FS/°C | [5] [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]Calibrated in tension and compression. [7]RO - Rated Output. [8]See Outline Drawing 49042 for Complete Dimensions | | | | | | | | | | |
| Electrical Bridge Resistance Excitation Voltage(Recommended) Insulation Resistance Zero Balance Output Polarity | 350 Ohm 10 VDC >5k GOhm ≤ 1 %RO +Tension | 350 Ohm 10 VDC >5k GOhm ≤ 1 %RO +Tension | [1] [2] | OPTIONAL ACCESSORIES: Model 084A87 Pre-Tension Stud Model 181-012A PT06A-10-6S(SR) Model 8311-01-10A CABLE | | | | | | | | | | |
| Physical Size (Diameter x Height) Weight Mounting Thread Sensing Element Mounting Torque Deflection at Full Scale Capacity Electrical Connector | 8.00 in x 4.50 in 54 lb 1 3/4 - 12 UNF-3B Strain Gage 2600 in-lb 0.001 in PT02E-10-6P (2) | 203.20 mm x 114.30 mm 25.5 kg No Metric Equivalent Strain Gage 294 Nm 0.025 mm PT02E-10-6P (2) | [8] | <table border="1"> <tr> <td data-bbox="1144 738 1291 787">Entered: AP</td> <td data-bbox="1291 738 1459 787">Engineer: PE</td> <td data-bbox="1459 738 1627 787">Sales: RWM</td> <td data-bbox="1627 738 1795 787">Approved: JSD</td> <td data-bbox="1795 738 1946 787">Spec Number:</td> </tr> <tr> <td data-bbox="1144 787 1291 828">Date: 2/17/2015</td> <td data-bbox="1291 787 1459 828">Date: 2/17/2015</td> <td data-bbox="1459 787 1627 828">Date: 2/17/2015</td> <td data-bbox="1627 787 1795 828">Date: 2/17/2015</td> <td data-bbox="1795 787 1946 828">48233</td> </tr> </table> | Entered: AP | Engineer: PE | Sales: RWM | Approved: JSD | Spec Number: | Date: 2/17/2015 | Date: 2/17/2015 | Date: 2/17/2015 | Date: 2/17/2015 | 48233 |
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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 data-bbox="1144 974 1512 1039" style="text-align: center;">  <p>PCB LOAD & TORQUE A PCB GROUP COMPANY</p> </div> <div data-bbox="1522 876 1911 1136" 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> | | | | | | | | | | |