

|                                     |                              |                              |
|-------------------------------------|------------------------------|------------------------------|
| Model Number<br><b>059810-01104</b> | <b>CLAMP FORCE LOAD CELL</b> | Revision: NR<br>ECN #: 46618 |
|-------------------------------------|------------------------------|------------------------------|

|   | <u>ENGLISH</u>             | <u>SI</u>               |        |
|---|----------------------------|-------------------------|--------|
| <b>Performance</b>                          |                            |                         |        |
| Measurement Range                           | 22.5 klbF                  | 100 kN                  | [5]    |
| Sensitivity(± 10 %)(RO)                     | 2.0 mV/V                   | 2.0 mV/V                | [3][1] |
| Non-Linearity                               | ≤ 0.25 % FS                | ≤ 0.25 % FS             | [5]    |
| Hysteresis                                  | ≤ 0.25 % FS                | ≤ 0.25 % FS             | [5]    |
| Non-Repeatability                           | ≤ 0.2 %RO                  | ≤ 0.2 %RO               | [3]    |
| <b>Environmental</b>                        |                            |                         |        |
| Overload Limit(150 %)                       | 33 klbF                    | 150 kN                  |        |
| Temperature Range(Operating)                | -0 to +200 °F              | -18 to +93 °C           |        |
| Temperature Range(Compensated)              | +70 to +170 °F             | +21 to +77 °C           |        |
| Temperature Effect on Output(Maximum)       | ± .001 %Reading/°F         | ± 0.0018 %Reading/°C    | [4]    |
| Temperature Effect on Zero Balance(Maximum) | ± .001 %FS/°F              | ± 0.0018 %FS/°C         | [4]    |
| <b>Electrical</b>                           |                            |                         |        |
| Bridge Resistance                           | 700 Ohm                    | 700 Ohm                 | [1]    |
| Excitation Voltage(Recommended)             | 10 VDC                     | 10 VDC                  | [2]    |
| Insulation Resistance                       | >5K GOhm                   | >5K GOhm                |        |
| Zero Balance                                | ± 1 %RO                    | ± 1 % FS                | [3]    |
| Output Polarity                             | + Comp                     | + Comp                  |        |
| <b>Physical</b>                             |                            |                         |        |
| Size (Height x Width x Depth)               | 8.95 in x 9.50 in x 2.0 in | 227 mm x 241 mm x 51 mm | [6]    |
| Weight                                      | 24 lb                      | 10.9 kg                 |        |
| Housing Material                            | Aluminum                   | Aluminum                |        |
| Sensing Element                             | Strain Gage                | Strain Gage             |        |
| Electrical Connector                        | PT02A-8-4P                 | PT02A-8-4P              |        |

**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.

**NOTES:**

[1] Nominal.  
 [2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.  
 [3] RO - Rated Output.  
 [4] Over compensated operating temperature range.  
 [5] FS - Full Scale.  
 [6] See Outline Drawing 66770 for Complete Dimensions

**SUPPLIED ACCESSORIES:**

Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm (1)  
 Model 90500-031910 Clamp Assembly (1)

|                 |                 |                 |                 |              |
|-----------------|-----------------|-----------------|-----------------|--------------|
| Entered: LK     | Engineer: PE    | Sales: DM       | Approved: JSD   | Spec Number: |
| Date: 3/20/2017 | Date: 3/20/2017 | Date: 3/20/2017 | Date: 3/20/2017 | <b>66766</b> |

*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.*