



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Load Cell  
Single Point Load Cell  
Model: L6T-xxx and L6W-xxx Series  
 $n_{max}$ : 3 000, Class III, Single and Multiple Cell  
Capacity: 50 to 1000 kg  
Accuracy Class: III

**Submitted By:**

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**Standard Features and Options**

The specific load cell capacities,  $v_{min}$  values, and minimum dead loads covered by this Certificate are listed in the table on Page 2.

- The xxx in the model designates rated capacity.
- Nominal Output: 2.0 mV/V
- Aluminum Material
- 6 Wire Design

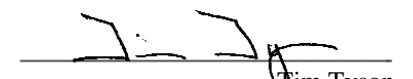
Capacity	$v_{min}$ Class III Single cell, n=3000	$v_{min}$ Class III Multiple cell, n=3000	Minimum Dead Load
50 kg	0.015 kg	0.015 kg	0 kg
75 kg	0.023 kg	0.023 kg	0 kg
100 kg*	0.030 kg	0.030 kg	0 kg
150 kg	0.045 kg	0.045 kg	0 kg
200 kg	0.060 kg	0.060 kg	0 kg
250 kg	0.075 kg	0.075 kg	0 kg
300 kg	0.090 kg	0.090 kg	0 kg
500 kg	0.150 kg	0.150 kg	0 kg
635 kg	0.191 kg	0.191 kg	0 kg
1000 kg*	0.300 kg	0.300 kg	0 kg

\*2 load cells tested

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

  
Kurt Floren  
Chairman, NCWM, Inc.

  
Jim Tyson  
Chairman, National Type Evaluation Program Committee  
Issued: February 2, 2012

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## Zemic (USA), Inc.

### Load Cell / L6T-xxx and L6W-xxx Series

**Application:** The load cells may be used in Class III scales for single or multiple cell applications consistent with the model designations, number of scale divisions, and parameters specified in this certificate. Load cells of a given accuracy class may be used in applications with lower accuracy class requirements provided the number of scale divisions, the  $v_{\min}$  value, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions ( $n_{\max}$ ) and with greater  $v_{\min}$  values than those listed on the certificate. However, the load cells must be marked with the appropriate  $n_{\max}$  and  $v_{\min}$  for which the load cell may be used.

**Identification:** A pressure sensitive identification label located on the cell, states manufacturer name, model number, serial number, rated capacity, rated output,  $V_{\min}$ , class, CC number and country of origin. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

**Test Conditions:** One Model L6T (100 kg capacity) load cell and one Model L6W (1000 kg capacity) load cell were tested by the NIST Force Group, using deadweights as the reference standard. The load cells were tested over a temperature range of -10 °C to 40 °C with tests run on each cell at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test was waived due to the insensitivity of the load cell design to changes in barometric pressure. The data were analyzed for single and multiple load cell applications. NCWM Publication 14 selection criteria was used to determine cells tested.

**Evaluated By:** K. Chesnutwood, NIST Force Group

**Type Evaluation Criteria Used:** NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2012. NCWM, Publication 14: Weighing Devices, 2011.

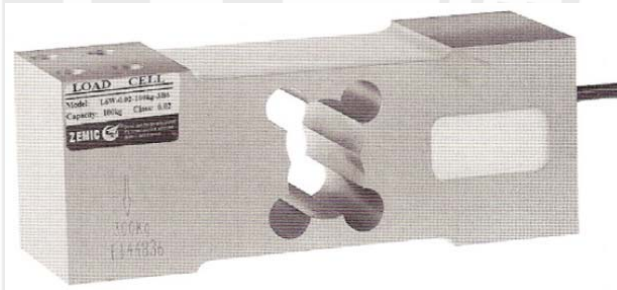
**Conclusion:** The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

**Information Reviewed By:** J. Truex (NCWM)

#### **Examples of Device:**



L6T



L6W