

***National Type Evaluation Program  
Certificate of Conformance  
for Weighing and Measuring Devices***

**For:**

Load Cell  
Single Ended Bending Beam  
Model: RL1260\*  
 $n_{\max}$ : Single and Multiple Cells: 5000  
Capacity: 50 kg to 1000 kg

Accuracy Class: III

**Submitted by:**

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**Standard Features and Options**

\*The specific load cells in the family covered by this certificate are identified by the model designation and the load cell capacities listed below.

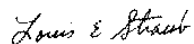
Capacity (kg)	$v_{\min}$ (kg)	Minimum Dead Load (kg)
50*	0.0053	0.00
75	0.0080	0.00
100	0.0106	0.00
150	0.0159	0.00
200	0.0212	0.00
250*	0.0265	0.00
300	0.0318	0.00
500	0.0530	0.00
635	0.0674	0.00
1000	0.1060	0.00

\* Two load cells of this capacity were submitted for evaluation

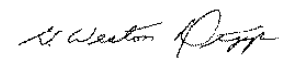
Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of 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.

Effective Date: November 13, 1997



Louis E. Straub  
Chairman, NCWM, Inc.



G. Weston Diggs  
Chairman, National Type Evaluation Program Committee

Issue date: February 24, 1999

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

**Rice Lake Weighing Systems**  
**Single Ending Bending Beam Load Cell**  
**Model: RL1260**

**Application:** The load cells may be used in Class III scales for both single and 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  $v_{\min}$  values, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions ( $n_{\max}$ ) and with larger  $v_{\min}$  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 badge containing the manufacturer, model designation, and serial number is located on the load cell. All other required information, if not marked on the load cell, must be on an accompanying document including the serial number of the load cell.

**Test Conditions:** Two 50-kg capacity load cells were tested at the California NTEP laboratory using dead weights as the reference standard. The data were analyzed for both single and multiple load cell applications. The cells were tested over a temperature range of  $-10$  °C to  $40$  °C. Three tests were 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. Identical tests were performed on two 250-kg load cells by the NIST Force Group.

**Type Evaluation Criteria Used:** NIST Handbook 44, 1997 Edition

**Tested By:** NIST Force Group, NIST Office of Weights and Measures and CA Division of Measurement Standards

**Information Reviewed By:** Gary Castro (CA) and R. Suiter (NIST)