



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Three Beam Single Point
Models: RL1010 and RL1015
 $n_{\max}$ Single Cell: 5 000
Capacity: 5 kg to 50 kg
Accuracy Class: III

Submitted By: Contact Info. Updated November 2022

Rice Lake Weighing Systems
230 W. Coleman St.
Rice Lake, WI 54868
Tel: 715-234-9171
Fax: 715-234-6967
Contact: Brad Bowers
Email: bbowers@ricelake.com
Web site: www.ricelake.com

Standard Features and Options

The Model RL1015 is identical to Model RL1010 except that the internal electronics of the load cell has been modified to produce an electrically symmetric design and should **NOT** be used with zero circuits that are sensitive to a change in load cell symmetry.

Standard Features:

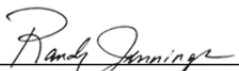
- Nominal Output: 2.0 mV/V
- Cable Type: 6-wire

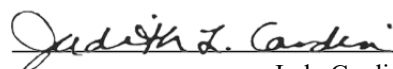
Capacity (kg)	$V_{\min}$ (kg)	Minimum Dead Load (kg)
5	0.0005	0
7	0.0007	0
10	0.0010	0
11.36	0.0012	0
15*	0.0015	0
20	0.0020	0
30	0.0030	0
50	0.0050	0

* Two Load Cells Submitted for Test

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.


Randy Jennings
Chairman, NCWM, Inc.


Judith Cardin
Chairman, National Type Evaluation Program Committee
Issued: June 13, 2000

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

The National Conference on Weights and Measures (NCWM) 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.

**Rice Lake Weighing Systems**

Load Cell / RL1010 and RL1015

Application: The load cells may be used in Class III scales for single 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: This Certificate is issued based on the following tests and upon information provided by the manufacturer. Three 15-kg capacity load cells were tested at NIST using dead weights as the reference standard. The data were analyzed for single 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 done. The barometric pressure test was waived due to the insensitivity of the load cell design to changes in barometric pressure.

Evaluated By: NIST Force Group, NIST Office of Weights and Measures

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2000. NCWM, Publication 14: Weighing Devices, 2000.

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

Information Reviewed By: L. Sebring (NIST) and G. Newrock (NIST)