



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Double-ended Shear Beam
Model: RL75058B-XXX & RL75058I-XXX
 n_{\max} Multiple Cell: 10 000
Capacity: 20 000 lb to 200 000 lb
Accuracy Class: III L

Submitted By:

Rice Lake Weighing Systems
230 W. Coleman St.
Rice Lake, WI 54868
Tel: 715-234-9171
Fax: 715-234-6967
Contact: Paul A. Lewis, Sr.
Email: plewis@ricelake.com
Web site: www.ricelake.com

Standard Features and Options

The RL75058B & RL75058I Series is identified by the model designation followed by a numeric suffix, which represents the load cell capacity in thousands of pounds.

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

Standard Features:

- Nominal Output: 3mV/V
- 4-wire Design

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.

John Gaccione
Chairman, NCWM, Inc.

Stephen Benjamin
Chairman, National Type Evaluation Program Committee
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1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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**Rice Lake Weighing Systems**

Load Cell / RL75058B-XXX & RL75058I-XXX

Application: The load cells may be used in Class III L scales for 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.

Model Designation:

Capacity (lb)	v_{\min}	Minimum Dead Load (lb)
20 000	0.65	265
25 000	0.75	335
30 000	0.90	400
40 000	1.20	535
50 000*	1.50	665
60 000	1.80	800
75 000	2.25	1000
90 000	2.70	1200
100 000	3.00	1335
125 000	3.75	1665
150 000	4.50	2000
200 000	6.00	2665

* Two Load Cells Evaluated by NTEP

Test Conditions: This Certificate supersedes Certificate of Conformance Number 98-143A1 and is issued to recognize a change to the model designation from RL75058B to RL75058I. No other changes have been made to the device so no additional testing is required. Previous test conditions are listed below as reference.

Certificate of Conformance Number 98-143A1: This Certificate supersedes Certificate of Conformance Number 98-143 and is issued without additional testing and upon information provided by the manufacturer to reduce the minimum dead loads listed in the table above. After reviewing information provided by the manufacturer, the NIST Force Group concluded that additional testing was not necessary.

Certificate of Conformance Number 98-143: This Certificate was issued based on the following tests and on information provided by the manufacturer. Two 50 000 lb capacity load cells were tested at NIST using dead weights as the reference standard. The data were analyzed for multiple load cell applications. The cells were tested over a temperature range of $-10\text{ }^{\circ}\text{C}$ to $40\text{ }^{\circ}\text{C}$. 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.

Evaluated By: NIST Force Group, NIST Office of Weights and Measures 98-143, 98-143A1

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 1999. NCWM, Publication 14: Weighing Devices, 1999.

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

Information Reviewed By: G. Newrock (NIST), L. Sebring (NIST) 98-143; L. Sebring (NIST) 98-143A1; J. Truex (NCWM) 98-143A2



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Load Cell / RL75058B-XXX & RL75058I-XXX

Example of Device:

