



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Rocker Column Stainless Steel Construction
Model: RL75114
 $n_{\max}$ Multiple: 10 000
Capacity: 20 000 lb to 200 000 lb
Accuracy Class: III L

Submitted By: Contact Info. Updated November 2022

Rice Lake Weighing Systems
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Standard Features and Options**Standard Features:**

- Excitation Voltage: 10 VDC
- Nominal Output: 2.0 mV/V
- Dead Load: 0 lb
- Wire Design: 4-wire Design
- Material: Stainless Steel

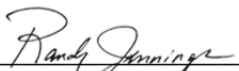
Model	Capacity (lb)	$v_{\min}$ (lb)
RL75114-20K	20 000	0.8
RL75114-50K	50 000	2.0
RL75114-75K	75 000	3.0
RL75114-100K	100 000	4.0
RL75114-125K	125 000	5.0
RL75114-150K	150 000	6.0
RL75114-200K	200 000	8.0

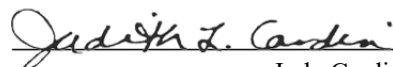
NOTE: $v_{\min}$ for capacities between 20 000 lb and 200 000 lb not listed above may be computed by the formula:

$$v_{\min} \geq \text{capacity} / 25\,000$$

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: February 23, 2006

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**Rice Lake Weighing Systems**

Load Cell / RL75114

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 must be on an accompanying document including the serial number of the load cell.

Test Conditions: This certificate is issued based upon the following tests and upon 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°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 performed to determine the sensitivity 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, 1997. NCWM, Publication 14: Weighing Devices, 1997.

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

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM)