



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Portable Floor Scale, Mechanical Beam and Electromechanical
Models: RL1100xy, RL1124xy, and RL1200xy
 n_{max} : 2000
Capacity: 1 000 lb x 0.5 lb
Platform: See below
Accuracy Class: III

Submitted By: Contact Info. Updated November 2022

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Standard Features and Options

The Model RL1100xy, RL1124xy, and RL1200xy- where x will be a "G" when the standard models have a galvanized finish; the y will be an "EM" when the standard models are converted to an Electrochemical Scale.

Standard Features:

- Lever System
- Weighbeam: 100 lb x 0.5 lb
- Counterpoise Weights: RL1100xy and RL1124xy use 1, 1, 2, 5 lb (ratio 100:1)
RL1200xy use 1,2,2,4 lb (ratio 100:1)
- Level Bubble

Indicating Elements Used:

- Rice Lake IQ+390 DC (Certificate of Conformance Number 98-203A2) or a Metrologically Equivalent NTEP Certified Indicating Element

Load Cells Used:

- Rice Lake RL20000A-100 Series (Certificate of Conformance Number 90-158) or a Metrologically equivalent NTEP Certified Load Cell

Platform:

- RL1100xy and RL 1124xy use an 18 inch x 27 inch platform. The RL1200xy uses an 18 inch x 24 inch platform.

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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Rice Lake Weighing Systems

Non-Computing Scale / RL1100xy, RL1124xy and RL1200xy

Application: General purpose portable floor scale.

Identification: The metal identification plate is riveted to the post of the scale on the RL1100xy and RL1124xy. The RL1200xy uses a self-destructing adhesive label attached to the post of the scale.

Sealing: There are no adjustable components in the scale that requires the use of a security seal.

Operation: The scale has a level indicating means (level bubble) attached to the base; however there is no level adjustment means. It is the users' responsibility to ensure that the scale is used in a level condition.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 93-004A2 and is issued to add a new scale (RL1200xy) to this certificate. The emphasis of this evaluation was on the device design, marking, and performance. Several increasing load tests were conducted. Ratio, shift, suitability of level indicator, and sensitivity tests were also performed. A load of approximately ½ scale capacity was applied to the scale over 100 000 times. The scale was checked periodically during this time. Measurements were taken at three different points on the weighbeam to verify compliance with the design specification. Because the scale consists of levers and a weighbeam, influence factor testing was not required. Previous test conditions are listed below for reference.

Certificate of Conformance Number 93-004A2: This Certificate supersedes Certificate of Conformance Number 93-004A1 and is issued without additional testing based upon information provided by the manufacturer to include the electrical mechanical option.

Certificate of Conformance Number 93-004A1: This Certificate supersedes Certificate of Conformance Number 93-004 and is issued without additional testing and upon information provided by the manufacturer to change the model designation from RL1124 to RL1100.

Certificate of Conformance Number 93-004: The emphasis of this evaluation was on the device design, marking, and performance. Several increasing/decreasing load and shift tests were conducted. Ratio and sensitivity tests were also conducted. A load of approximately one-half scale capacity was applied to the scale 100 060 times. The scale was checked periodically during this time. Measurements were taken at three different points on the weighbeam to verify compliance with the design specifications. Because the scale consists of levers and a weighbeam, influence factor testing was not required.

Evaluated By: B. Badenhop (OH) & J. Truex (OH) 93-004; A. McCoy (OH) 93-004A2; T. Buck (OH) 93-004A3

Type Evaluation Criteria Used: : *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2014 Edition. *NCWM Publication 14 Weighing Devices*, 2013 Edition

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

Information Reviewed By: L. T. Sebring (NIST) 93-004A1; S. Patoray (NCWM) 93-004A2; J. Truex (NCWM) 93-004A3



Rice Lake Weighing Systems

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Example of Device:



RL1200xy