



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Vehicle/Railway Track Scale, Load Cell Electronic
Model: RT Series
 n_{max} : 8 000
 e_{min} : 20 lb (vehicle) and 50 lb (railway)
Capacity: 160 000 lb (vehicle) and 400 000 lb (railway)
Vehicle Scale CLC: 50 ton
Railway Scale Section Capacity: 200 ton
Platform: (see below)
Accuracy Class: III L

Submitted By: Contact Info. Updated November 2022

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Standard Features and Options

Model RTXXYY-ZZ: where XX = length of platform; YY = Width of Platform; ZZ = Capacity of W/LRE)

For Vehicle Scale:

- Lengths Up to 112-ft;
- Widths Up to 12-ft;
- Platform Area no Less Than 125-sq ft

For Railway Track Scale:

- Lengths Up to 112-ft
- Longest Span Between Sections: 30-ft

Load Cells Used:

- Revere Transducers Model CSP1-B10-200K (NTEP CC 88-082A4)

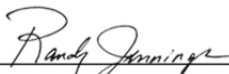
Indicating Element:

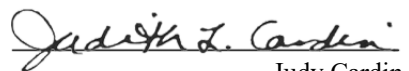
- Rice Lake Weighing Systems Model IQ+810-3A (NTEP CC 92-013A2) or any NTEP Certified and Compatible Indicator

Note: The device may be set-up as a multi-interval device provided the indicator used has an NTEP Certificate of Conformance for multi-interval or multiple range applications and the load cells used have a v_{min} appropriate for the smallest division

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: November 20, 2007

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Rice Lake Weighing Systems

Weighing/Load Receiving Element / RT Series

Application: Combination vehicle/railway track scale for weighing vehicles and rail cars when interfaced with a compatible and certified single range, multiple range, or multi-interval indicating element. The scale can also be used for railway scale only or vehicle scale only applications.

Identification: The identification information is located near the load cell junction box on the weighbridge.

Sealing: The load cell junction box for the weighing/load-receiving element can be sealed by threading a wire security seal through two screws on opposite sides of the face of the load cell junction box. The overall scale calibration can be sealed according to the sealing instructions specified on the NTEP CC for the indicating element.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 02-020 and is issued to clarify the lengths and widths of device covered by the NTEP CC per the NTEP Technical Policy in NCWM Publication 14 Weighing Devices, Section 8.1. and 8.2. No additional testing was deemed necessary based on input from the manufacturer, technical advisors, and the NTEP Committee Chair. The previous test conditions are referenced below.

Certificate of Conformance Number 00-020: This Certificate is issued based upon information provided by the manufacturer to change the name of the company from the previous owner and to transfer ownership of the device covered under Certificate of Conformance Number 99-001 to Rice Lake Weighing Systems. All institutional knowledge of the previous owner has been transferred to the new company. Test conditions for Certificate of Conformance Number 99-001 are as follows:

Certificate of Conformance Number 99-001: The emphasis of this evaluation was on device design and performance. A 75' x 10' scale was interfaced with a Rice Lake Model IQ+810 digital weight indicator (Certificate of Conformance Number 92-013A2) and was simultaneously evaluated as a 120 000-lb x 20-lb and 350 000-lb x 50-lb scale. The scale was tested initially with 100 000 lb of known test weights in 10 000-lb increments. Increasing/decreasing-load tests were conducted using 100 000 lb of known test weights. Two strain-load tests were conducted with test loads of 212 900 lb and 241 550 lb. A mid-span evaluation was performed using at least 90 percent of the CLC.

The scale was retested for permanence after minimum use requirements were met and increasing/decreasing-load tests were again conducted using 100 000 lb of known test weights. Two strain-load tests were conducted with test loads of 145 820 lb and 188 800 lb. The mid-span test was repeated.

Evaluated By: Cary Brown (GIPSA) and Kent McConnell (NE) 99-001

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) 00-020; S. Patoray, L. Bernetich (NCWM) 02-020A1

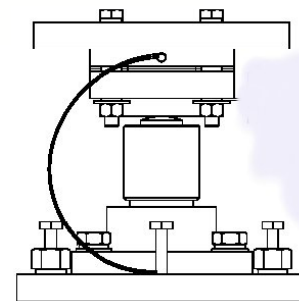
Examples of Device:



Typical Model RT-XX-YY Installation



Typical Model RT-XX-YY Installation



Load Cell Mounting System