



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Railway Track Scale, Electronic
Model: RR
 n_{max} : 8 000
 e_{min} : 50 lb
Capacity: 400 000 lb
Section Capacity: 185 ton
Accuracy Class: IIII

Submitted By:

Holtgreven / Loadmaster Scale
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Standard Features and Options

- The scale may consist of either one or two platforms with a length of dead space between the platforms when two platforms are used.
- The length of the dead space will depend upon the weighing requirements of the individual installation and the length of the cars being weighed.

Maximum Section Span: 15 ft
Minimum Rail Length: 6.25 ft
Nominal Platform Width: 6.1 ft to 10 ft
Minimum Platform Area: 38 sq ft

Load Cells Used:

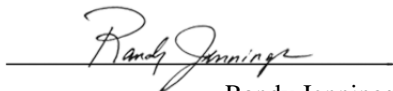
- Artech Model 90310 200k (NTEP Certificate of Conformance Number 95-092), or NTEP certified equivalent

Installations must satisfy the relationships of $v_{min} \leq d/\sqrt{N}$, where N = number of load cells and d = the scale 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.


Tim Tyson
Chairman, NCWM, Inc.


Randy Jennings
Chairman, National Type Evaluation Program Committee
Issued: December 1, 2010

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Holtgrevan Scale and Electronics Corporation

Weighing/Load Receiving Element / RR

Application: General purpose railway scale weighing / load receiving element.

Identification: The identification plate is located on the weighing element near the junction box.

Sealing: The junction box may be sealed with a physical seal.

Test Conditions: This Certificate supersedes Certificate of Conformance 95-046 and is issued to clarify the application and use of the railway track scale, without additional testing, per adopted NTEP policy. Previous test conditions are listed below for reference.

Certificate of Conformance Number 95-046: For the purposes of evaluation, a scale system consisting of two platforms (12.5 ft two section and 25 ft three section) was tested. The emphasis of this evaluation was on device design and operation. The scale was tested initially with 100 000 lb of known test weights and a strain-load test was conducted with a test load of 196 000 lb. Increasing, decreasing and section tests were conducted during the initial evaluation. The device was used for 34 days and tested again. Increasing, decreasing, and section tests were again performed and a strain-load tested was conducted using a test load of 205 000 lb.

Evaluated By: W. Norrs (GIPSA)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 1996. NCWM, Publication 14: Weighing Devices, 1996.

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

Information Reviewed By: C. V. Cotsoradis (NIST) 95-046; J. Truex (NCWM) 95-046A1

Example of Device:

