



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Vehicle Scale, Axle Load, Load Cell Electronic
Model: LS-WIM Axle Scale
 n_{max} : 2000
 e_{min} : 20 lb
Capacity: Up to 40 000 lb
Platform: 2.5 ft x 13 ft
CLC: 40 000 lb
Accuracy Class: III L

Submitted By:

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Standard Features and Options

Installations must satisfy the relationships of $v_{min} \leq d/\sqrt{N}$, where N = number of load cells, and nominal capacity $\leq CLC \times (N - 0.5)$, where N is the number of sections in the scale.

Standard Features:

- Scale Capacities: Up to 40 000 lb
- Platform Area: 32.5 sq ft, minimum
- Platform Deck Material: Steel
- Pit Installation

Load Cells Used:

Intercomp Company, Model 603053-AC 25K Strain Gauge, Double-ended Shear Beam Load Cells (NTEP CC Number 94-121), or other NTEP Certified, Compatible and Equivalent.

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.

Jerry Buendel
Chairman, NCWM, Inc.

Ronald Hayes
Committee Chair, National Type Evaluation Program Committee
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Intercomp Company
Weighing/Load Receiving Element / LS-WIM Axle Scale

Application: For use in general purpose weighing of highway vehicle axles when interfaced with an NTEP certified and compatible indicating element.

Identification: The identification badge is located under the junction box access cover and is mounted to the junction box lid.

Sealing: The indicating element and junction box shall be sealed according to manufacturer specifications.

Test Conditions: The emphasis of the evaluation was on the design, marking, and performance of the weighing load receiving element. A 13' x 2.5', 40 000 x 20 lb, Model LS-WIM Axle Scale weighing element was tested. The scale was interfaced with a Intercomp Company Model PT20 (NTEP CC 12-108) indicating element. The scale was tested using 40 000 lb of known test weights to perform increasing/decreasing, and shift tests. The scale was sealed and used until a minimum time and use requirements had been met, then tested again. The increasing/decreasing load was repeated using 40 000 lb of known test weights.

Evaluated By: D. Flocken (NTEP)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2015 Edition. *NCWM Publication 14 Weighing Devices*, 2015 Edition.

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

Information Reviewed By: J. Truex (NCWM)

Examples of Device:



Model: LS-WIM Axle Scale



Access Cover removed showing junction box and data badge