



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Wheel-Load Weigher  
Digital Electronic  
Model: Load Ranger  
 $n_{max}$ : 1200  
Capacity: 2400 lb x 2 lb to 24 000 lb x 20 lb  
Platform: 15.7 in x 22.2 in to 24.1 in x 37.4 in  
Accuracy Class: IIII

**Submitted By:**

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**Standard Features and Options**

- Automatic Zero tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic Zero Setting Mechanism (Push Button)
- DC power (rechargeable battery)
- Liquid Crystal Display
- Wireless and cabled communication (optional)
- Auxiliary touch screen weight display with integral printer, tare, multi-channel, summing and zero capability. (optional)
- Available Units (lb, kg, t)
- Ramps (optional)

**Load Cells Used:** Rice Lake RL35063S 2000 lb and 5000 lb NTEP CC 18-025

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *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. \*Editorial changes, not affecting the type or metrological content, corrected this certificate.

Hal Prince  
Chairman, NCWM, Inc.

Craig VanBuren  
Chair, NTEP Committee  
Issued: October 22, 2020

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**Rice Lake Weighing Systems**  
Wheel-Load Weigher / Load Ranger

**Application:** For use in law enforcement as a wheel-load weigher either individually or in pairs or for the collection of statistical information.

**Identification:** All required markings are on a self-adhesive tamper evident label near the weight display.

**Sealing:** The device has a category 1 physical seal on the cover over the main circuit board on the underneath side of the device.

**Test Conditions:** This certificate supersedes Certificate of Conformance Number 20-003P and was issued to update device type in the For: Box to Wheel-Load Weigher and update the Application statement. Previous test conditions are listed below for reference. No additional testing deemed necessary.

**Certificate of Conformance Number 20-003P:** The emphasis of this evaluation was on the device design, operation, marking requirements, and performance. Four devices of the model: Load Ranger were submitted and evaluated in the laboratory. Two 24 000 lb x 20 lb with a platform size of 24.1 in x 37.4 in and two 2400 lb x 2 lb with a platform size of 15.7 in x 22.2 in. Multiple increasing tests were performed individually and in pairs with calibrated test weights. Out of level testing at 3 degrees/5% percent rise over run in four directions with 20 000 lb and 2400 lb of known test weight was performed. The scales were evaluated for DC voltage at 4.07 VDC and 3.21 VDC. The remote display with integral printer was evaluated along with unit conversion from lb to kg. The wireless communication, summing feature, zero function and tare thru the remote display were evaluated and the wireless communication and summing features thru the scales were evaluated. After laboratory performance testing, the scales were sealed for field permanence testing. When all of the NTEP permanence test requirements were met several increasing tests were repeated with 24 000 lb and 2400 lb of known test weights. This certificate is based upon data provided by the manufacturer and test data collected at ambient temperature in the Ohio NTEP laboratory.

NOTE: This certificate is issued as a provisional NTEP Certificate of Conformance (CC). This evaluation is based on the current draft checklist, procedures and technical policy contained in NCWM Publication 14 for this Device type. When work on the NCWM Publication 14 section for this device is completed, the test report and this NTEP CC will be reviewed. If all current requirements have been met by this evaluation, the provisional status will be removed.

**Evaluated By:** J. Gibson (OH); M. Manheim (NCWM) 20-003PA1

**Type Evaluation Criteria Used:** *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2019 Edition. *NCWM Publication 14: Measuring Devices*, 2019 Edition.

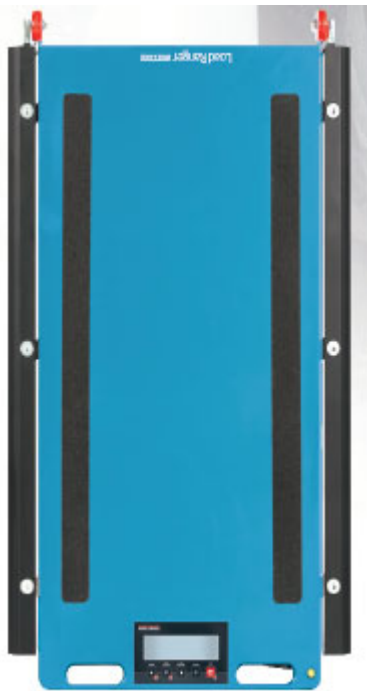
**Conclusion:** The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

**Information Reviewed By:** D. Flocken (NCWM) 20-003P, 20-003PA1



**Rice Lake Weighing Systems**  
Wheel-Load Weigher / Load Ranger

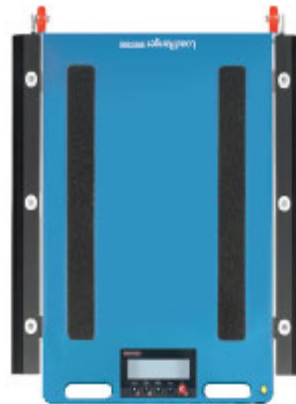
**Example(s) of Device:**



**RF-XWD**



**RF-WD**



**RF-MD**



**Load Ranger Indicator**

