

***National Type Evaluation Program  
Certificate of Conformance  
for Weighing and Measuring Devices***

**For:**

Non-Computing Scale, Wheel Load Weigher  
Digital Electronic  
Models: RW-10L / RW-05L / RW-10S / RW-05S \*  
 $n_{max}$ : 500  
Capacities: 20 000 x 50 lb; 10 000 x 20 kg  
10 000 x 50 lb; 5 000 x 20 kg  
Platform: 340 mm x 360 mm / 340 mm x 600 mm  
Accuracy Class: IIII

**Submitted by:**

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**Standard Features and Options**

lb or kg indication (toggle key)  
Battery power supply (alkaline or rechargeable)  
Semi-automatic zero (push button)  
Automatic zero setting mechanism  
Alphanumeric, liquid crystal display (LCD)  
LCD backlight  
Local/Total mode permits interconnection and totalizing of up to 18 wheel load weighers

\* The model RW is followed by either a 10 or 05.  
The 10 designates 20 000 lb capacity and the 05 designates 10 000 lb capacity.  
The models RW-10L & RW-05 L have a platform size of 340 mm x 600mm  
The models RW-10S & RW-05S have a platform size of 640 mm x 360 mm

**Optional:**

RS 232 or 20mA current loop data transmission

Load cell: Part number RW-10L: CAS CPA-3T  
RW-05L: CAS CPA-2T

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F) \* see NOTE on page 2

This device was evaluated under the National Type Evaluation Program (NTEP) 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.



Dennis E. Ehrhart  
Chairman, NCWM, Inc.



Ross J. Andersen  
Chairman, National Type Evaluation Program Committee  
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Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

**CAS Corporation**  
**Non-Computing Scale**  
**Wheel Load Weigher, Digital Electronic**  
**Model: RW 10L & RW 05L**

**Application:** For use in law enforcement or collection of statistical information either individually or in pairs.

**Identification:** All required information appears on a metal badge riveted to the housing adjacent to the weight display.

**Sealing:** A wire security seal is passed through two drilled head screws that secure the metal faceplate, preventing access to the programming and calibration switch.

**Test Conditions:** This certificate supersedes Certificate of Conformance Number 03-047P and is issued to clarify the models and platform sizes covered by the certificate. No testing was performed to issue this certificate. Previous test conditions are listed below as reference.

**Test Conditions Certificate of Conformance 03-047P:** Six Model RW-10L scales and six Model RW-05L scales were initially tested in the laboratory. Several increasing load/return to zero tests were performed using 19 900 lb of known test weight. Out of level tests were performed at 3° (5%) individually on two of the scales using 19 900 lb of known test weight. Two of the scales were tested as a pair to 19 900 lb. DC power supply tests were conducted at minimum and maximum DC voltage (7.6 VDC and 9.0 VDC). A specifically designed pad was used to distribute the load and simulate pneumatic tire loads. The scales were put into the field and used for thirty days with the minimum use criteria required by NTEP being met. The scales were then returned to the laboratory and increasing load/return to zero tests and out-of level tests at 3° (5%) were repeated using 19 900 lb of known test weight and the same weight on the proving ring.

\*NOTE: This Provisional Certificate is issued based upon influence factor test data provided by the manufacturer and test data collected at ambient temperature in the NTEP laboratory.

The results of these evaluations and a review of technical information supplied by the manufacturer indicate the device conforms to the applicable requirements of NIST Handbook 44.

**Type Evaluation Criteria Used:** NIST Handbook 44, 2003 Edition, NCWM Publication 14, 2003 Edition

**Tested By:** W. West (OH), A. McCoy (OH), T. Lucas (OH), S. Smith (OH) 03-047P, W. West (OH) 03-047PA1

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