NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Computing Scale
Digital Electronic
Model: RS130 and RS160
n_{max}: 3000 (See table below)
e_{min}: (See table below)
Capacity: (See table below)
Platform: 300 mm x 240 mm
Accuracy Class: III

Submitted By:
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Standard Features and Options

Standard Features:

Semi-automatic (push-button) Zero (SAZSM)
Automatic Zero Tracking (AZT)
Initial Zero Setting Mechanism (IZSM)
Semi-automatic (push-button) Tare
Keyboard Tare (with PLU)
AC Power Supply
Battery Saving Feature (Auto Shut-Off)
Gross/Net Display
Customer Display
LCD (Liquid Crystal Display)
Units (lb, kg, oz)
Calculation of Monetary Change
Battery Power Supply

Model	Capacity x division (lb)	Capacity x division (kg)	Capacity x division (oz)
RS130 (n_{max})	30 x 0.01 (3000)	15 x 0.005 (3000)	480 x 0.2 (2400)
RS160 (n_{max})	60 x 0.02 (3000)	30 x 0.01 (3000)	960 x 0.5 (1920)

Options:

- Pole Mounted Customer Display

Load cells used:

- Celtron Model LPS, 20 kg (Certificate of Conformance Number 95-056), or NTEP Certified metrological 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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Rice Lake Weighing Systems
Computing Scale / RS130 and RS160

Application: For use in direct sales in supermarkets and delicatessens.

Identification: The required markings are located on both the operator and customer's display and also on a label located on the left side of the scale.

Sealing: Two (2) means of sealing. (1) A plastic rod, which is attached to the cover, protrudes through an opening in the bottom of the scale. This opening is in a cavity of the bottom of the scale. The wire seal is passed through a hole at the end of this rod. Once the wire is sealed, the rod prevents the scale from opening, which prevents access to the calibration jumper. (2) Two self- adhesive foil seals are attached on the bottom of the scale. With the foil seals, any attempt to remove the seals and separate the scale housing to access the calibration jumper, "void" is visible or seals will be destroyed.

Operation: The device has a "Monetary Change" feature. With weight and the unit price on the scale display press "CHG" key and enter the amount of the payment tendered by the customer, to calculate the amount of customer change. The amount of the change due is displayed in the unit price (example C 10.95) and the annunciator "Change Due" will be lit in the unit price display window, the amount tendered by the customer will be in the total price window with the "Cash Received" annunciator lit. When the transaction is complete the operator will press the "Clear" key to return to the active weight display; the unit price will remain until the "Clear" key is pressed again.

The device also has external unit switching feature to change from the unit the scale is setup in press "Unit" key then 1 for kg, 2 for lb or 3 for oz.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 04-067A1 and is issued to add a second method of sealing. A self- adhesive foil seal. With the foil seal, "void" is visible if an attempt to remove the seal is made. Evaluation of the sealing method was conducted by an NTEP participating laboratory. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 04-067A1: This Certificate supersedes Certificate of Conformance Number 04-067 and is issued to add model RS160 and to add a pole mounted customer display option. A Rice Lake Model RS160 (60 lb x 0.02 lb / 30 kg x 0.01 kg / 960 oz x 0.5 oz) scale with pole mounted customer display was submitted for evaluation. The emphasis of the evaluation was on design, markings, operation, performance and compliance with influence factor requirements. Several increasing/decreasing load and shift tests were conducted in lb, kg and oz unit of measure. The device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half capacity was applied to the scale over 100 000 times. The scale was tested periodically during this time. No additional testing was deemed necessary.

Certificate of Conformance Number 04-067: A Rice Lake Model RS130 (30 lb x 0.01 lb / 15 kg x 0.005 kg / 480 oz x 0.2 oz) scale was submitted for evaluation. The emphasis of the evaluation was on design, markings, operation, performance and compliance with influence factor requirements. Several increasing/decreasing load and shift tests were conducted in lb, kg and oz unit of measure. The device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half capacity was applied to the scale 100 139 times. The scale was tested periodically during this time. Additionally, tests were conducted using 100 VAC, 130 VAC, and a range from 4.1 to 9.0 of DC power supplies.

Evaluated By: A. McCoy (OH) 04-067; J. Morrison (OH) 04-067A1; M. Kelley (OH) 04-067A2

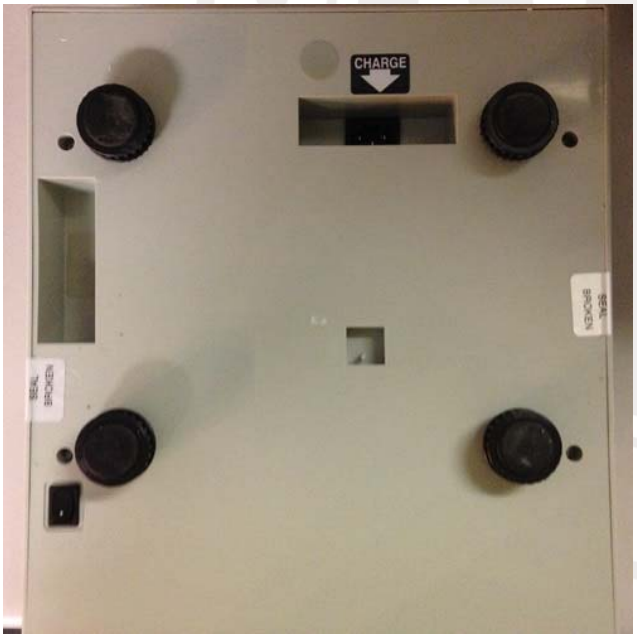
Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2016 Edition. *NCWM Publication 14 Weighing Devices*, 2016 Edition.

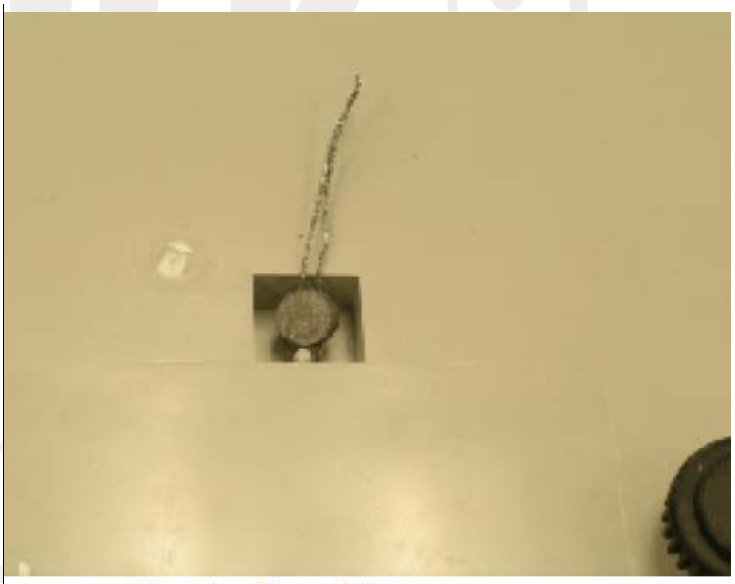
Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 04-067; J. Truex (NCWM) 04-067A1, 04-067A2

Rice Lake Weighing Systems
Computing Scale / RS130 and RS160

Examples of Device:





Typical sealing