

National Conference on Weights and Measures

1135 M Street, Suite 110 • Lincoln, Nebraska 68508

Certificate Number: 08-092A2

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

For:

Indicating Element

Digital Electronic

Model: CW90-Y and CW90X-Y * (See Below)

n_{\max} : 10 000

Accuracy Class: III / IIIL

Submitted by:

Rice Lake Weighing Systems

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Standard Features and Options

Model: CW90-Y and CW90X-Y

Semi-automatic (push button) zero setting mechanism (SAZSM)

Automatic zero tracking mechanism (AZT)

Alphanumeric Display

Keyboard tare

Semi-automatic (push button) tare

Wireless Ethernet Communication

AC power supply * (See Below)

DC power supply * (See Below)

Remote printer capability

Gross/Net display

14 segment LED display

RS232 / USB / Ethernet

4-20mA Loop

Unit Conversion (lb, oz, kg, g)

Linear Calibration Points

Category II Audit Trail

* The model suffix Y designates the following:

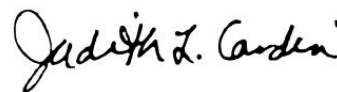
Y= Power Input Voltage; A= 100-240 VAC, D= 9 – 36 VDC, E= 10 – 60 VDC

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

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.



Jack Kane
Chairman, NCWM, Inc.



Judith L. Cardin
Chairman, National Type Evaluation Program Committee
Issue Date: April 9, 2009

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.

Rice Lake Weighing Systems
Indicating Element
Model: CW90-Y and CW90X-Y

Application: A general purpose indicating element to be interfaced with an approved compatible weighing element.

Identification: The capacity by division statement and, where applicable, the CLC or Section Capacity will appear on an adhesive label on the front bezel plate of the indicator. The other required information appears on an adhesive label on the side of the indicator.

Sealing: Physical Seal: The Model CW90-Y and CW90X-Y wire security seal can be threaded through two drilled head screws that secure the back cover of the indicator to prevent undetected access to a switch that must be depressed to enter the set-up and calibration mode, on the bottom side of the indicator.

Audit Trail “Category II”: To access audit trail Press **MENU** Key “**AUDIT**” will be displayed. Pressing the **UNDER** key will display the legal for trade software version. Pressing the **TARGET** Key will display the word “**CALIB**” for the Calibration counter and three seconds later the Calibration counter number will be displayed. “**CALIB**” and the Calibration counter number will continue to flash back and forth until the **TARGET** Key is pressed again. Pressing the **TARGET** Key again will display “**CFG**” for the Configuration counter and three seconds later the Configuration counter number will be displayed. “**CFG**” and the Configuration counter number will continue to flash back and forth until the **TARGET** Key is pressed again. Pressing the **TARGET** Key again will display “**EXIT**” then pressing the **UNDER** key will put the indicator back into the weight mode. Pressing the **MENU** Key at anytime while in Audit Trail will put you back into the weight mode. Accessing Audit Trail will not interfere with any weighting function except the weight will not be displayed until you go back in to the weight mode.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 89-092A1 and was issued without additional testing to correct an omission of the Audit trail method of sealing. Test conditions are repeated below.

Certificate of Conformance Number 89-092A1: This Certificate supersedes Certificate of Conformance Number 89-092 and was issued without additional testing to correct an omission of a standard feature in the “Standard Features & Options Box.”

Certificate of Conformance Number 89-092: The emphasis of the evaluation was on design, operation, performance, marking and compliance with influence factor requirements. A model CW90-A and CW90X-A indicator were evaluated. The indicators were interfaced to a Rice Lake Model BM1218-50 Weighing/Load Receiving Element (Certificate of Conformance of Conformance Number 95-072) and a printer to evaluate center of zero, discrimination, zone of uncertainty, motion detection, and print format. The indicators were also both interfaced to a load cell simulator which was used to perform several increasing/decreasing load tests. The CW90-A indicator was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Additionally, tests were conducted using power supplies of 85 to 264 VAC, 9 to 39.6 VDC, and 10 to 66 VDC.

Evaluated By: T. Lucas (OH), J. Morrison (OH)

Type Evaluation Criteria Used: NIST Handbook 44, 2008 Edition; NCWM Publication 14, Edition 2008

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) 08-092, 08-092A1 & 08-092A2

**Rice Lake Weighing Systems
Indicating Element
Model: CW90-Y and CW90X-Y**

Example of Device:

Example of Model CW90-Y:



Example of Model CW90X-Y:

