



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Models: T403xx, T413xx & T453xx Series
 $n_{\max}$: 10 000
Accuracy Class: III / III L

Submitted By:

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Standard Features and Options

- Semi-automatic (push-button) Zero
- Automatic Zero Setting (AZT) Mechanism
- Semi-automatic (push-button) Tare
- Keyboard Tare
- Preprogrammed Tare
- Center of Zero Annunciator
- Gross/Net/Tare Display
- Weight Accumulation
- Alphanumeric Display
- LCD Display
- Unit Selection Key (lb, kg, g, oz, custom unit of measure)
- Weigh In/Weigh Out
- Category 3 Audit Trail
- 2 Event Counters (Configuration, Calibration)
- Variable Print Format
- RS232 Communication
- Ethernet
- USB
- DC Power (9-36VDC)
- AC Power (110/230VAC)
- Stainless Steel Enclosure
- Aluminum Alloy Enclosure
- Panel Mount Enclosure

Options:

- Wireless
- Panel Mount Kit (Alloy Enclosure)

Software Version:

- 1.0.0.0 or higher

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.

Kristin Macey
Chairman, NCWM, Inc.

Jerry Buendel
Chairman, National Type Evaluation Program Committee
Issued: November 29, 2016

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**B-Tek Scales LLC**

Indicating Element / T403xx, T413xx & T453xx Series

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

Identification: The required marking information is on the back of the device. Labels for capacity, division, CLC (concentrated load capacity; if required), and section capacity (if required) will be identified on an adhesive label. The label will self-destruct when removed.

Sealing:**Audit Counters:**

1. To access the User menu, press and hold the "F1" or "SetUp" key until the word "PASS" is displayed.
2. The display will change to show a password prompt.
3. Using the "Tare" key to scroll up and the "Units" key to advance the cursor position, scroll in the number "111".
4. The "Zero" key is used as the Enter key to accept the password. Upon successful completion of the password, the display will show "USER".

From the "USER" Prompt, Accessing the Configuration Audit Counter:

1. Press the "Print" key to display the word "AUDIT".
2. Press the "Select" key to display the word "COUNTER".
3. Press the "Select" key to display the word "CONFIG".
4. Press the "Select" key again to display the actual configuration counter.

From the "USER" Prompt, Accessing the Calibration Audit Counter:

1. Press the "Print" key to display the word "AUDIT".
2. Press the "Select" key to display the word "COUNTER".
3. Press the "Select" key to display the word "CONFIG".
4. Press the "Units" key to display the word "CALIB".
5. Press the "Select" key again to display the actual calibration counter.

Printing the Audit Counters/Audit Trail from the "USER" Prompt:

1. Press the "Print" key to display the word "AUDIT".
2. Press the "Select" key to display the word "COUNTER".
3. Press the "Select" key to display the word "CONFIG".
4. Press the "Print" Key so the display shows "PRINT".
5. Press the "Select" key and the choice of com port is displayed.
6. Using the "Print" and "Units" key, one can select from "Com1", "Com2", and "USB". Press the "Select" key to accept the choice that is displayed.

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. Three models were submitted for this evaluation. The emphasis of the evaluation was on device design, operation, and compliance with environmental factors. All three models were interfaced with load cell simulators and then tested for accuracy over a temperature range of -10°C to +40°C (14°F to 104°F). The indicator was interfaced with an Avery Weigh-Tronix BS 20 x 20 N (Certificate of Conformance Number 88-104) load receiving element and a CP-130 printer with the wireless option enabled. The device was tested for discrimination, power interruption, zero tests, and print format. Additionally, tests were performed using 100 VAC and 130 VAC as well as 8.3 VDC and 39.6 VDC power supplies. The wireless printing features were tested in conformance to PUB 14 requirements.

Evaluated By: E. A. Payne, Jr. (MD)

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

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)



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Example of Device:

