NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Indicating Element
Digital Electronic
Model: TI-700 Series
n_{max}: 10 000
Accuracy Class III / III L

Submitted By:
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Standard Features and Options

Standard Features:

Automatic Zero Tracking (AZT)
Initial Zero Setting Mechanism (IZSM)
Semi-Automatic Zero (push- button)
Semi-Automatic (push- button) Tare
Power saving Feature (Auto Shut Off)
A/C Power supply
Stainless Steel or Plastic Enclosures
Center of Zero Annunciator
Category I Audit Trail
7 Digit, 7-Segment (numeric) Display
lb/kg External Conversion (push button)
Gross/Net/Tare Annunciators
Stable Weight Annunciator
Time/Date Printing
Low Battery Annunciator
Multi-Point Calibration (up to 3)
RS-232 Bidirectional Communication
Liquid Crystal Display (LCD)

Optional Features:

DC power (Battery)
Wireless communication (Bluetooth, Wi-Fi, RS485)
Wireless Operation Between TI-500 RFTM-B1/B1E (NTEP CC 12-002) and Indicating Element

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
Committee Chair, National Type Evaluation Program Committee
Issued: October 6, 2016

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Transcell Technology

Indicating Element / TI-700 Series

Application: General purpose indicating element for use with a NTEP certified and compatible weighing/load receiving element.

Identification: The required markings are located on an adhesive label on the top of the indicator. If an attempt is made to remove the label, a checkerboard pattern will be present to indicate the label has been removed.

Sealing: These indicators use a Category I Audit Trail: Configuration and calibration counters update each time a configuration or calibration change occurs. The counters return to zero after 1000 changes, individually. The counters may be viewed by powering up the unit: The screen will display the configuration audit counter ("CF") and the calibration audit counter ("CA"). **S**eal these devices using one wire security seal through two adjacent screws on the rear cover; this prevents internal access to the calibration jumper.

Test Conditions: The emphasis of the evaluation was on device design, marking, operation, performance, and compliance with influence factors. Two model TI-700 Series indicating elements, (plastic case and stainless steel case) were submitted for evaluation. The TI-700 Series indicator was interfaced to a Doran model: DXL 8100 weighing/load receiving element (Certificate of Conformance 97-097A1) to verify compliance with zero, zone of uncertainty, unit conversion, and motion detection requirements. Additionally, the TI- 700 Series was interfaced to a load cell simulator to perform several increasing / decreasing tests, warm-up test and power interrupt test. Wireless communication tests were also performed. Temperature tests were performed on both stainless steel and plastic cases over a range of -10 °C to 40 °C (14 °F to 104 °F).

Evaluated By: J. Gibson (OH)

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: J. Truex (NCWM)

Examples of Device:

Stainless Steel

Plastic