NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Indicating Element
Digital Electronic
Models: TI-1500 Series and TI-1600 Series
n_{max}: 10 000
Accuracy Class: III / III L

Submitted By: Contact Info. Updated November 2022
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Standard Features and Options

Standard Features:

- External lb/kg Key
- RS 232 Interface
- Internal AC Adapter
- Semi-automatic Zero and Tare
- Keyboard Tare (TI-1600 Series only)
- LED (light emitting diode display)
- LCD (liquid crystal display)

TI-1500 Series

Model	Display Type	Enclosure Type
TI-1500	LED	Plastic (ABS)
TI-1510	LCD	Plastic (ABS)
TI-1520	LED	Stainless Steel
TI-1530	LCD	Stainless Steel

TI-1600 Series

Model	Display Type	Enclosure Type
TI-1600	LED	Plastic (ABS)
TI-1610	LCD	Plastic (ABS)
TI-1620	LED	Stainless Steel
TI-1630	LCD	Stainless Steel

Temperature Range: -10 ºC to 40 ºC (14 ºF to 104 ºF)

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.

Randy Jennings
Chairman, NCWM, Inc.

Judy Cardin
Chairman, National Type Evaluation Program Committee
Issued: March 31, 1999

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Transcell Technology, Inc.

Indicating Element / TI-1500 Series and TI-1600 Series

Application: These indicators may be used with any approved and compatible weighing elements for general purpose weighing.

Identification: The identification label is on top of the indicator. The indicator is mounted on a swivel mount that may be turned to view the identification information.

Sealing: Calibration and configuration parameters are accessed by toggling an internal switch or jumper to a set-up mode. The security seal prevents undetected access to this internal calibration switch. Indicators may be sealed by threading a wire security seal through two adjacent screws that secure the back cover and prevents access to the internal switch or jumper.

Operation: The "piece count" and "custom unit" functions must be disabled and their access sealed when the indicating element is used in "legal-for-trade" applications covered under this certificate. The "UNITS" key may be repeatedly pressed to verify that these functions are not accessible.

Test Conditions: The emphasis of this evaluation was on device design, operation, and compliance with the influence factor requirements. Models TI-1530 and TI-1600 were submitted for evaluation. The indicating elements were interfaced to load cell simulators and tested for accuracy over a temperature range of -10 °C to 40 °C and 100 VAC and 130 VAC. Additionally, the indicating elements were attached to the weighing elements and tested for compliance with zone of uncertainty, AZSM, width of zero, and discrimination requirements. One indicator was connected to a printer to check print format.

Evaluated By: Bill Fishman (NY)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 1999. NCWM, Publication 14: Weighing Devices, 1999.

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