



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Models: TI-500 RF Series, TI-500 RFTM-B1/B1E and
TI500RF-CA
 $n_{\max}$: 10 000
Accuracy Class: III/IIIL

Submitted By: Contact Info. Updated November 2022

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Standard Features and Options**Standard:**

- 6 digits, 7-segment (numeric) Display
- Automatic Zero Setting Mechanism (AZSM)
- lb/kg external (push-button)
- Gross/Net/Tare Display
- Gross/Net/Tare Annunciators
- Stable Weight Annunciator
- Initial Zero Setting Mechanism (IZSM)
- Weight Accumulation
- lb, kg, g, oz Units
- Time/Date Printing
- Low Battery Annunciator

- Multi Point Calibration (Up to 3)
- Semi-Automatic (Push Button) Tare
- Center of Zero Annunciator
- Semi-Automatic (Push Button) Zero
- RS-232 Bidirectional Communication
- Automatic Zero-Tracking Mechanism (AZT)
- Automatic Shut Off Feature
- DC Operation (4 VDC to 14 VDC)
- Category I Audit Trail
- Liquid Crystal Display (LCD)
- AC/DC Adaptor

Options:

- Bluetooth Communication
- Analog Output
- Wireless Operation between TI-500 RFTM-B1/B1E and Indicating Element
- WLAN Communication
- Multi-Interval
- Plastic Housing
- Stainless Steel Housing
- RS-485 Communication
- Set Point Relays

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.

James Cassidy
Chairman, NCWM, Inc.

Kristin Macey
Chairman, National Type Evaluation Program Committee
Issued: March 30, 2018

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**Transcell Technology, Inc.**

Indicating Element / TI-500 RF Series, TI-500RFTM-B1/B1E and TI-500RF-CA

Application: The TI-500 RF, TI-500 RF SS and TI500RF-CA indicators may be used with any NTEP certified and compatible weighing elements for general purpose weighing. The model TI-500 RFTM-B1/B1E provides a proprietary wireless digital output from an analog load cell system to a compatible and certified indicating element. Applications include tank, hopper, floor, vehicle, and combination vehicle/rail scales.

Identification: Models TI-500 RF and TI-500 RF SS: The identification information is on a label on top of the indicator. The indicator has a swivel mount that allows the indicators to be rotated to view the identification information.

TI-500 RFTM-B1/B1E: The identification information is on a label on the front panel.

Sealing: Models TI-500 RF, TI-500 RF SS and TI500RF-CA: 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"). Seal these devices using one wire security seal through two adjacent drilled fillister head screws on the rear cover; this prevents internal access to the calibration jumper.

Model TI-500 RFTM-B1/B1E: Seal these devices using one wire security seal through two adjacent screws on the rear cover, this prevents internal access

Test Conditions: This certificate supersedes Certificate of Conformance 12-002 and is issued to add Multi-Interval and a plastic housing to models: TI-500 RF, TI-500 RF SS and TI500RF-CA. A model: TI500RF-CA was submitted for evaluation. Single range and Multi-Range Increase/decrease testing was performed. The Multi-Interval was checked for correct tare and rounding functions and agreement of indication and registration was evaluated. With test data provided by the manufacturer, no other testing was deemed necessary. The previous test conditions are listed below for reference.

Certificate of Conformance Number 12-002: The emphasis of this evaluation was on device design, operation, performance, and compliance with influence factor requirements. The model TI-500 RF was submitted for evaluation and interfaced with both a load cell simulator and a Digi Scale model DS-470SS weighing element. Several increasing/decreasing load tests were performed over a temperature range of -10°C to 40°C (14°F to 104°F) and line voltages of 100 VAC to 130 VAC. In addition, the indicator was evaluated for tare, discrimination, center of zero and print formats tests. Several tests were performed to verify the wireless printing capabilities of the device. The TI-500 RF SS was also interfaced to the TI-500 RFTM-B1/B1E wireless interface module which in turn was subjected to influence factor testing.

Evaluated By: E. A. Payne, Jr (MD) 12-002; J. Gibson (OH) 12-002A1

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2018. NCWM, Publication 14: Weighing Devices, 2017.

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)12-002, 12-002A1



Transcell Technology, Inc.

Indicating Element / TI-500 RF Series, TI-500RFTM-B1/B1E and TI-500RF-CA

Examples of Device:



TI-500 RF SS



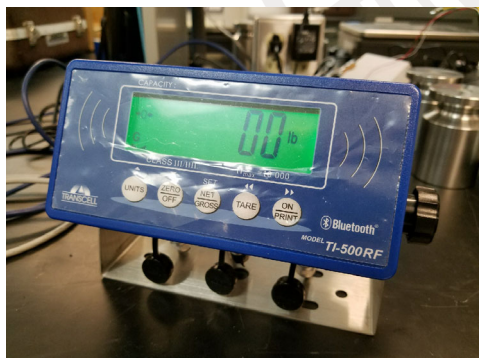
TI-500 RF



TI-500 RFTM-B1E



TI-500 RFTM-B1



TI-500RF-CA