



## NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Indicating Element  
Digital Electronic  
Model: TD52P and TD52XW  
 $n_{\max}$ : 10 000  
Accuracy Class: III/IIIL

**Submitted By:**

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**Standard Features and Options**

- Semi-Automatic (push button) Zero Setting Mechanism
- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic (push button) Tare
- Keyboard Tare
- Programmable Tare
- Multiple Tare Memories
- Automatic Tare
- Center of Zero Annunciator
- Single Range or Multi-Interval
- 100 - 240 VAC Power Supply
- Rechargeable battery pack (optional)
- Unit Switching (Kilogram, Gram, Metric Ton, Pound, Ounce, Pound-Ounce, Ton)
- RS232 Communication Port with Remote Printer Capability
- Ethernet, second RS232, RS485, USB interfaces (optional)
- Counting Mode (marked "The counting feature is not legal for trade")
- Linearity Calibration Points
- Battery Saving Feature (auto shut off, screen saver)
- Motion Detection
- Gross / Net display
- Dot matrix LCD display
- Physical Seal

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  
Committee Chair, National Type Evaluation Program Committee  
Issued: July 12, 2018

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## Ohaus Corporation

Indicating Element / TD52P and TD52XW

**Application:** This indicating element is to be interfaced with a certified and compatible weighing element and may be used for general purpose weighing and Postal/Shipping Scale applications.

**Identification:** The required markings are on a self-destructive adhesive label on the back of the indicator. The maximum capacity and the division size 'd' must be marked near or on the display at the initial examination.

**Sealing:** A security switch inside the housing is used to prevent calibration and changes to metrological settings. The TD52P uses a cross-drilled screw to attach a sealing plate over the security switch and secure the housings together. A wire seal is threaded through the cross drilled screw and a tab in the housing. The TD52XW uses two cross-drilled screws to secure the housings together. A wire seal is threaded through the two cross-drilled screws.

**Test Conditions:** This device was submitted to and evaluated by Measurement Canada under the U.S. and Canadian MRA. The technical data was reviewed by the New York NTEP laboratory for compliance with Publication 14 and NIST Handbook 44 requirements. The emphasis of the evaluation was on the device design, operation, marking requirements and compliance with influence factors. A load cell simulator was interfaced to the device for several increasing/decreasing tests. The device 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 100 VAC to 240 VAC and 7.4 VDC to 8.1 VDC, as well as zero tests, zone of uncertainty, and motion detection requirements.

**Evaluated By:** D. Dhaliwal (MC), E. Morabito (NY)

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



Model TD52P

Model TD52XW



Methods of Sealing