NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Indicating Element
Digital Electronic
Models: T51P and T51XW
n_{max}: 10 000
Accuracy Class: III

***Submitted By: Contact Info. Updated: December 2010**
Ohaus Corporation
7 Campus Drive, Suite 310
Parsippany, NJ 07054
Tel: 973-377-9000
Fax: 973-944-7177
Contact: Robert Hansen
Email: bob.hansen@ohaus.com
Web site: www.ohaus.com

Standard Features and Options

Standard Features:

- Semi-Automatic (push-button) Zero Setting Mechanism
- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic (push-button) Tare
- Gross/Net Display
- Liquid Crystal (LCD) Display
- 7 or 14 Segment Alphanumeric
- Unit Switching (Pound/Kilogram/Ounce/Gram)
- RS232 Port
- Center of Zero Annunciator
- Linearity Calibration Points
- AC Power
- Battery Saving Feature (auto shut off)
- Housing Types: Stainless Steel = model T51XW
  Plastic = model T51P

Options:

- Multi-Interval
- Rechargeable Battery Power Supply
- Other Communication RS-422, RS-485

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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Tim Tyson
Chairman, NCWM, Inc.

Randy Jennings
Chairman, National Type Evaluation Program Committee
Issued: December 28, 2010

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

Ohaus Corporation

Indicating Element / T51P and T51XW

Application: General purpose indicating element for use with an NTEP Certified and compatible weighing element.

Identification: The required information for the Manufacture, Model, Serial Number, and NTEP CC appears on a self-destructive label. The label is located on the left side of the T51P indicator and the top of the T51XW indicator. The capacity x division statement is on a label adjacent to the weight display.

Sealing: The metrological parameters are sealed using a physical seal of wire and plastic. For the T51P, the wire is threaded through a bolt and rib located on the rear of the device. For the T51XW, the wire is threaded through bolts located on the rear of the device. The bolts are at a distance such that the seal will be broken when an attempt is made to unscrew the bolts.

Before sealing the device, the LFT menu must be set to ON and the security switch must be set to the ON position. When exiting the Setup menu, a display of "NO.SW" indicates that the security switch has not been set to the ON position. In this case the scale will return to the Setup menu. Once the security switch is set to the ON position, the setup menu can be exited.

Test Conditions: The Ohaus model, T51P (plastic housing) was submitted for evaluation along with technical information from the manufacturer for the model T51XW (stainless steel housing) which other than the housing is equivalent to the T51P. The emphasis of the evaluation was on the device design, operation, and marking requirements and compliance with influence factors. The indicator was interfaced with a Champ SQ Series (NTEP CC 01-048) Class III weighing/load-receiving element to verify compliance with the 2008 applicable sections of NCWM Publication 14, including but not limited to tare operations, zero, zone of uncertainty, and motion detection requirements. The device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F) using a load cell simulator. Tests were conducted using 100 VAC to 240 VAC and 6.7 VDC to 9.6 VDC.

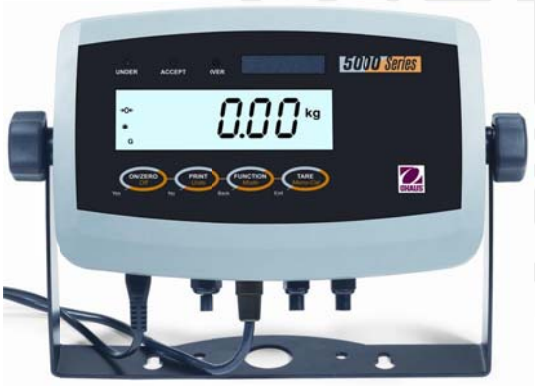
Evaluated By: A. McCoy (OH)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2008. NCWM, Publication 14: Weighing Devices, 2008.

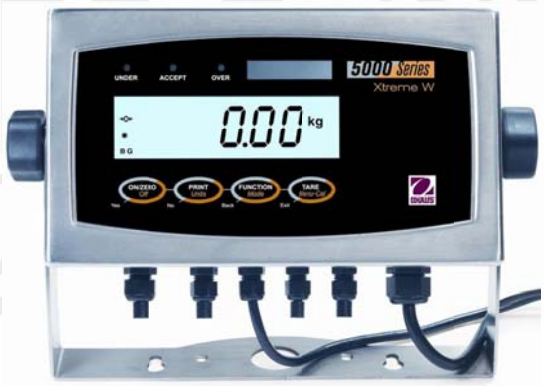
Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: S. Patoray, L. Bernetich (NCWM)

Example of Device:



Model T51P



Model T51XW