NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Indicating Element
Digital Electronic
Model: i-DT33P, i-DT33XW
n_{max}: 6000
Accuracy Class: III / III L

Submitted By:
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Standard Features and Options

- Semi-Automatic (push button) Zero Setting Mechanism
- Programmable Tare
- Automatic Tare
- Power Saving: Automatic shut off and Auto screen off
- Automatic Zero Tracking (AZT)
- Semi-Automatic (push button) Tare
- Initial Zero Setting Mechanism (IZSM)
- Motion Detection
- Gross / Net Display
- Voltage: VAC (100 to 240) VDC (6 to 9)
- Unit Switching (lb, oz, kg, g, t, (lb: oz for postal use only))
- External Printer
- Communications: RS232, USB (Optional), ethernet interface (Optional)
- Plastic or stainless-steel housing
- Category 1 Sealing Method
- Center of Zero Annunciator
- Single Range or Multi-Interval
- Linearity calibration points
- Check weighing, Accumulation, Counting Mode is not “Legal for Trade”

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.

Ivan Hankins
Chairman, NCWM, Inc.

Hall Prince
Committee Chair, NTEP Committee
Issued: August 11, 2021

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Ohaus Corporation
Indicating Element / i-DT33P, i-DT33XW

Application: A general purpose Indicating element for use with any NTEP certified and compatible weighing load receiving element.

Identification: All required markings are located on a self-destructive pressure sensitive label on the housing of the indicating element.

Sealing: Both models use a Category 1 sealing method. A physical wire security seal or pressure sensitive security seal can be used on both models of indicator preventing the housing from being separated and blocking access to the internal calibration switch. Please refer to sealing images in the examples of device section.

Test Conditions: The emphasis of the evaluation was on the device design, operation, performance, and compliance with influence factors. Two Ohaus indicating elements were submitted for evaluation the models were i-DT33P with a plastic housing and the i-DT33-XW with a stainless-steel housing. The indicators were interfaced with a load receiving element to verify compliance with zero, zone of uncertainty and motion detection requirements. A load cell simulator was interfaced to the devices, multiple increasing/decreasing tests were performed. The devices were tested over a temperature range of -10º C to 40º C (14º F to 104º F). Tests were conducted using AC and DC voltage at 5.2 VDC, 9 VDC, 9.9 VDC, 85 VAC, 120 VAC and 264 VAC and all applicable check list requirements were evaluated.

Evaluated By: J. Gibson (OH)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2020 Edition. *NCWM Publication 14 Measuring Devices*, 2021 Edition.

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

Information Reviewed By: D. Flocken (NCWM)

Example(s) of Device:

Model: i-DT33XW

Model: i-DT33P

Ohaus Corporation
Indicating Element / i-DT33P, i-DT33XW

Paper sealing and wire sealing for both models.

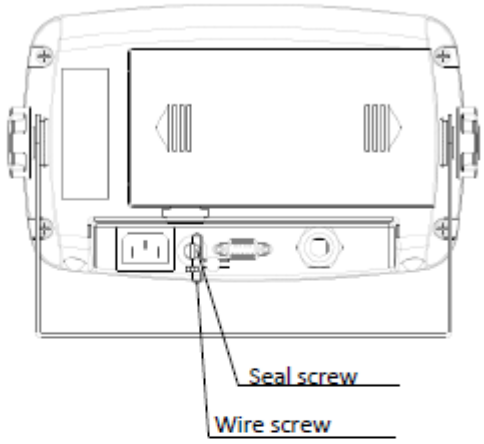

Figure 5-1. i-DT33P Wire Seal

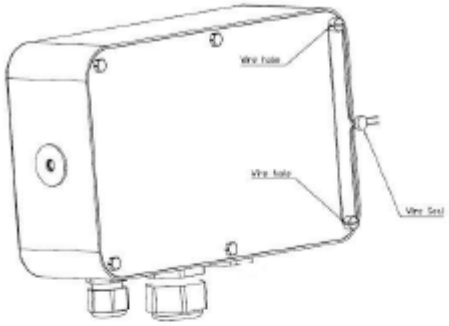

Figure 5-2. i-DT33XW Wire Seal

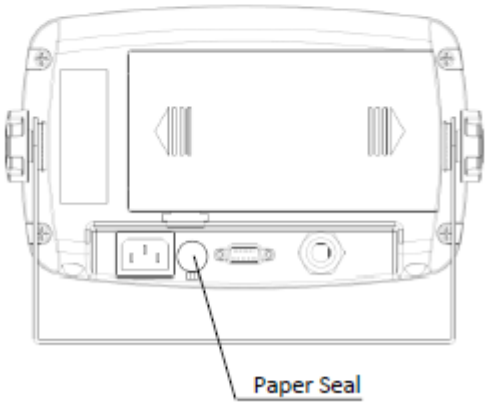

Figure 5-3. i-DT33P Paper Seal

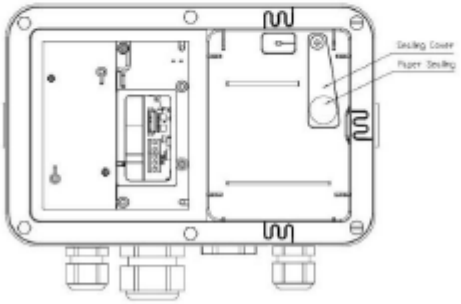

Figure 5-4. i-DT33XW Paper Seal