



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Platform, Load Cell Electronic
Model: VN Series, i-DFxB1y, and i-DFxC1y Series
 n_{max} : 5 000
 e_{min} : 0.05 to 1.0 lb (0.5 kg)
Capacity: (see below)
Accuracy Class: III

***Submitted By: Contact Info. Updated November 2020**

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Standard Features and Options**Standard Features:**

- Platform: Device evaluated 5 ft x 5 ft. The device may have platform areas up to but not larger than that evaluated, with lengths or widths no greater than 125 percent of either dimension tested. (e.g. 6ft x 4ft).
- Platform sizes: 3 ft x 3 ft, 4 ft x 4 ft, 5ft x 5 ft with Stainless or Carbon Steel Decking.

Option:

- Detachable Ramps and Locating Plates

Load Cells Used:

- Celtron Technologies model SQB series (NTEP CC 91-043A4) or NTEP certified metrological equivalent
- Mettler Toledo SLB215-550kg or SLB215-1.1t Series (NTEP CC 13-081) or NTEP certified metrological equivalent

Note: Model Number identifier's: i-DF = Industry product Defender Floor Scale Family

x = Capacity, C1 = Stainless Deck, B1 = Carbon Deck, y = Platter Size, R= 3 ft x 3 ft platform, L = 4 ft x 4 ft, X = 5 ft x 5 ft

Model	Capacity	e_{min}	n_{max}
VN Series	2500 to 5000 lb / 1000 to 2200 kg	1 lb / 0.5 kg	2500 to 5000
i-DFxB1y Series	2500 to 5000 lb / 1250 to 2200 kg	0.5 - 1.0 lb / 0.5 kg	5000
i-DFxC1y Series	2500 to 5000 lb / 1250 to 2200 kg	0.5 - 1.0 lb / 0.5 kg	5000

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.

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Chair, NCWM, Inc.

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Issued: December 14, 2022

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Ohaus Corporation

Weighing/Load Receiving Element / VN Series, i-DFxB1y, and i-DFxC1y Series

Application: General purpose weighing/load-receiving element when connected to a certified and compatible indicating element.

Identification: The engraved identification badge is riveted to the side of the platform.

Sealing: The load cell junction box is located on the back of the Load receiving element and can be sealed with a wire security seal threaded through two holes on the cover.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 08-048A1 and is issued to update the VN series model name to the i-DF series. Additional platter sizes and optional deck material was also added. The emphasis of this evaluation was on the device design, marking requirements, and performance. The Weighing/Load Receiving Element models submitted for this evaluation are i-DF2500C1R and a i-DF2500B1X. Both models were interfaced with Defender 5000 Model TD52P indicator and several increasing/decreasing load up to capacity. Corner and quadrant shift tests were conducted using 625. And 750. lb of certified weights during the initial evaluation. After conducting the initial evaluation an appropriate permanence test was conducted after which the device was subjected to same tests conducted during the initial evaluation. Previous test conditions are listed below as reference.

Certificate of Conformance Number 08-048A1: This certificate supersedes Certificate of Conformance Number 08-048 and is issued to correct several errors on page 1 and in the test conditions. No additional testing is required. Previous test conditions are listed below as reference.

Certificate of Conformance Number 08-048: A 5000-lb, 5 ft x 5 ft (Model VN5000X) 5000 x 1 lb was submitted for evaluation. The weighing/load receiving element was interfaced with an Ohaus Model CD-31 indicating element (NTEP CC 99-071). The emphasis of this evaluation was on the device design, marking requirements, and performance. Several increasing/decreasing loads (up to 5000 lb) and corner shift tests were conducted using 1250 lb of certified weights during the initial evaluation. After conducting the initial evaluation, an appropriate permanence test was conducted after which the device was subjected to the same tests conducted during the initial evaluation.

Evaluated By: Terry Davis (KS) 08-048, 08-048A1, B. Stone (OH) 08-048A2

Type Evaluation Criteria Used: *NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2022 Edition. NCWM, Publication 14: Weighing Devices, 2022 Edition.*

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)08-048, 08-048A1, D. Flocken (NCWM) 08-048A2

Example of Device:

VN and i-DFxB1y Series



i-DFxC1y Series

