



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Counter Bench, Load Cell Electronic
Model: HDXXXX-YY Series and HDPXXYY-YYY Series
 $n_{\max}$: 5 000
 $e_{\min}$: 0.05 lb (0.02 kg) (see below)
Capacity: 250 lb (100 kg) to 600 lb (300 kg) (see below)
Platform: (see below)
Accuracy Class: III

Submitted By: Contact Info. Updated November 2022

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Standard Features and Options

*The specific models designation for the HD & HDP Series covered by this certificate is HDXXXX-YYY and HDPXXXX-YYY where XXXX represents the scale dimensions in inches and the YYY represent the scale capacity in pounds. An "S" following the platform size designates stainless steel frame. The scales may be set as smaller capacity than that listed on this CC, as long as the $n_{\max}$ is not increased and $e_{\min}$ is not decreased.

HDP Series:

- Portable with Two or Four Wheel Arrangement
- Level and Column to Mount the Indicator On

Capacity:

- HD and HDP Series: 250 lb x 0.05 lb to 600 lb x 0.2 lb (125 kg x 0.05 kg to 300 kg x 0.1 kg)

Platform Size:

- HD and HDP Series: Up to 36" x 36" (1296 in²)
- The scales may have platform areas up to but not larger than that evaluated at each capacity, with lengths or widths no greater than 125 percent of either dimension tested.

Load Cell Used:

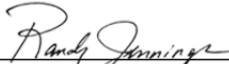
- HBM Model PW 16 (Certificate of Conformance Number 05-093)
- or Compatible and NTEP Certified Equivalent Load Cells

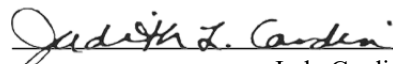
Frame: Mild or Stainless Steel

Platform Material: Stainless Steel

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.


Randy Jennings
Chairman, NCWM, Inc.


Judith Cardin
Chairman, National Type Evaluation Program Committee
Issued: May 17, 2006

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Rice Lake Weighing Systems

Weighing/Load Receiving Element / HDXXXX-YYY Series and HDPXXYY-YYY Series

Application: For use in general purpose weighing when interfaced with a compatible and NTEP certified electronic indicating element.

Identification: The required information is on an approved label located on the base of the weighing element.

Sealing: There are no sealable parameters located on the load receiving element. The scale calibration and set-up parameters are sealed through the indicating element.

Test Conditions: This certificate supersedes and replaces Certificate of Conformance 06-010 and is issued to include the option of portability by adding a column for mounting the indicating element and moving the scale, wheels mounted on the weighing/load receiving element and adding a level indicator. One configuration is with 4 wheels that may be locked to prevent movement. The other configuration is with 2 wheels on the back of the weighing/load receiving element in a manner that allows the scale to be tilted onto the wheels and rolled from one location to another. One weighing element, a Model HDP 3636-500 was evaluated in the laboratory using Rice Lake Weighing Systems Model IQ Plus 310A (Certificate of Conformance 91-132A3) Indicating Element. This weighing element was set up for most of the evaluation as 500 lb x 0.1 (250 kg x 0.05 kg), but was also re-configured as 600 x 0.2 lb and tested to include the largest capacity for the family. Several increasing/decreasing load and shift tests were conducted. The scale was tested and then moved to another location and re-tested several times without re-calibrating. The scale was tested in this manner individually for each configuration of wheel attachment. No further evaluation was deemed necessary.

Certificate of Conformance Number 06-010: The emphasis of the evaluation was on the device design, marking, performance and compliance with influence factor requirements. Two weighing elements, a 250 lb x 0.05 lb (125 kg x 0.05 kg) and a 500 lb x 0.1 (250 kg x 0.05 kg), were evaluated in the laboratory using Rice Lake Weighing Systems Model IQ Plus 310A (Certificate of Conformance 91-132A3) Indicating Elements. Several increasing/decreasing load and shift tests were performed. A load of 300 lb was applied to the scales over 100,000 times. The permanence test was done with 300 lb instead of 250 lb in order to satisfy the permanence test requirement for the largest capacity. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The 500 lb scale was recalibrated to 600 lb x 0.2 (300 kg x 0.1 kg) and several increasing/decreasing load and shift tests were performed.

Evaluated By: W. West, A. McCoy, & T. Buck (OH) 06-010, 06-010A1

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2006. NCWM, Publication 14: Weighing Devices, 2005.

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)

Examples of Device:



Model HDP



Model HDP