



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
 Load Cell Electronic
 Models: DxxxBx and DxxxVx Series
 n_{max} : 3 000
 e_{min} : 0.01 lb (0.005 kg)
 Capacity: 30 lb to 600 lb (15 kg to 300 kg)
 Platform: 305 mm x 355 mm to 500 mm x 650 mm
 Accuracy Class: III

Submitted By:

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Standard Features and Options

Where: xxx = Capacity in kg, B = Carbon Steel frame, V = Stainless Steel frame, and x = R, L, or X Platform Size

Model	Capacity (kg)	Capacity (lb)	Platform Size
D15BR, D15VR	15 kg x 0.005 kg	30 lb x 0.01 lb	305 x 335 mm
D30BR, D30VR	30 kg x 0.01 kg	60 lb x 0.02 lb	305 x 355 mm
D60BR, D60VR	60 kg x 0.02 kg	150 lb x 0.05 lb	305 x 355 mm
D60BL, D60VL	60 kg x 0.02 kg	150 lb x 0.05 lb	420 x 550 mm
D150BL, D150VL	150 kg x 0.05 kg	300 lb x 0.1 lb	420 x 550 mm
D150BX, D150VX	150 kg x 0.05 kg	300 lb x 0.1 lb	500 x 650 mm
D300BX, D300VX	300 kg x 0.1 kg	600 lb x 0.2 lb	500 x 650 mm

Load Cells Used:

One center mounted load cell

- For the model D15BR: A Mettler Toledo model MT1241, NTEP Certificate 11-088 (30 kg)
- For the model D30BR: A Mettler Toledo model MT1241, NTEP Certificate 11-088 (50 kg)
- For the model D60BR: A Mettler Toledo model MT1241, NTEP Certificate 11-088 (100 kg)
- For the model D60BL: A Mettler Toledo model MT1260, NTEP Certificate 11-088 (100 kg)
- For the models D150BL, D150BX: A Mettler Toledo model MT1260, NTEP Certificate 11-088 (300 kg)
- For the models D300BL, D300BX: A Mettler Toledo model MT1260, NTEP Certificate 11-088 (500 kg)
- For the model D15VR: A Mettler Toledo model SLP532 non-NTEP (30 kg)
- For the model D30VR: A Mettler Toledo model SSP1241 or SLP532, non-NTEP (50 kg)
- For the models D60VR, D60VL: A Mettler Toledo model SSP1241 or SLP532, non-NTEP (100 kg)
- For the models D150VL, D150VX: A Mettler Toledo model SSP1260 or SLP533, non-NTEP (300 kg)
- For the models D300VL, D300VX: A Mettler Toledo model SSP1260 or SLP533, non-NTEP (500 kg)

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

Kristin Maeey
 Chairman, NCWM, Inc.

Jerry Buendel
 Chairman, National Type Evaluation Program Committee
 Issued: February 28, 2017

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Ohaus Corporation

Weighing/Load Receiving Element / DxxxBx and DxxxVx Series

Application: For use in general purpose weighing applications when interfaced with an NTEP Certified and compatible indicating element.

Identification: The required information is on a foil label glued to the frame of the scale under the platter.

Sealing: The load receiving element has no metrological functions that require the use of a security seal. Calibration and configuration of the scale are done through the indicator and sealed according to the manufacturer's instructions for the particular indicator used.

Test Conditions: This Certificate supersedes Certificate of Conformance 08-021A3 and is issued to add the model D15BR 30 lb x 0.01 lb (15 kg x 0.005 kg) to the DxxxBx Series. This device was submitted to and evaluated by Measurement Canada under the U.S. and Canadian MRA. The technical data was reviewed by the Maryland NTEP laboratory for compliance with Publication 14 and N.I.S.T Handbook 44 requirements. The emphasis of the evaluation was on device design, operation, performance, and compliance with influence factor requirements. Previous test conditions are listed below for reference

Certificate of Conformance Number 08-021A3: This Certificate supersedes Certificate of Conformance 08-021A2 and is issued to add the model D15VR 30 lb x 0.01 lb (15 kg x 0.005 kg) to the DxxxVx Series. This device was submitted to and evaluated by Measurement Canada under the U.S. and Canadian MRA. The technical data was reviewed by the Maryland NTEP laboratory for compliance with Publication 14 and N.I.S.T Handbook 44 requirements. The emphasis of the evaluation was on device design, operation, performance, and compliance with influence factor requirements.

Certificate of Conformance Number 08-021A2: This Certificate supersedes Certificate of Conformance 08-021A1 and is issued to recognize a change in the model designation for the load cell used. There was no change to the load cell, so no testing was deemed necessary.

Certificate of Conformance Number 08-021A1: This Certificate supersedes Certificate of Conformance 08-021 and is issued to recognize the use of load cells now traceable to an NTEP certificate (CC 11-088). The load cells used in certain models and capacities are identical to those tested by NTEP when the weighing elements were evaluated. Based upon the information supplied by the manufacturer of the load cells, NTEP has confirmed there were no metrological changes made to the load cells and no need for additional testing of the weighing/load receiving elements.

Certificate of Conformance Number 08-021: The emphasis of the evaluation was on the device design, marking requirements, operation, performance, and compliance with influence factor requirements. The Ohaus D30BR (60 lb x 0.02 lb) and D300VX (600 lb x 0.2 lb) were submitted for evaluation. They were both interfaced to Ohaus CD-33 indicating elements (Certificate of Conformance number 99-071) and submitted for evaluation. Several increasing/decreasing load tests and shift tests were performed. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half capacity was applied to the weighing / load receiving elements over 100 000 times (each). The scale was tested periodically during this time.

Evaluated By: J. Morrison (OH) 08-021; Measurement Canada, E.A.Payne, Jr (MD) 08-021A3; Z. Tripoulas (MD) 08-021A4

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2017. NCWM, Publication 14: Weighing Devices, 2017.

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

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 08-021; J. Truex (NCWM) 08-021A1, 08-021A2, 08-021A3, 08-021A4



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Weighing/Load Receiving Element / DxxxBx and DxxxVx Series

Example of Device:



Model D30BR

