



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
 Load Cell Electronic
 Model: i-DxB1y and i-DxC1y Series (See SFO Box)
 n_{max} : 3000
 e_{min} : 0.005 kg (0.01 lb)
 Capacity: 15 kg (30 lb) to 600 kg (1200 lb)
 Platform: See table in SFO box
 Accuracy Class: III

Submitted By:

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Standard Features and Options

Model designation: i-D = industry product Defender family, x = capacity in kg, B1/C1= carbon steel or SS, y = R, L, X, V platter size
 R = 305 x 355 mm, L = 420 x 550 mm, X = 500 x 650 mm, V = 600 x 800 mm

Model	Capacity	e_{min}	n_{max}
i-D15B1R, i-D15C1R	15 kg (30 lb)	0.005 kg (0.01 lb)	3000
i-D30B1R, i-D30C1R	30 kg (60 lb)	0.01 kg (0.02 lb)	3000
i-D60B1R, i-D60B1L, i-D60C1R, i-D60C1L	60 kg (120 lb)	0.02 kg (0.05 lb)	3000
i-D75B1R, i-D75B1L, i-D75C1R, i-D75C1L	75 kg (150 lb)	0.05 kg (0.05 lb)	3000
i-D150B1L, i-D150B1X, i-D150C1L, i-D150C1X	150 kg (300 lb)	0.05 kg (0.1 lb)	3000
i-D300B1X, i-D300C1X, i-D300B1V	300 kg (600 lb)	0.1 kg (0.2 lb)	3000
i-D600B1V	600 kg (1200 lb)	0.2 kg (0.5 lb)	3000

- Stainless Steel platter
- Carbon steel or Stainless-Steel square tube sub frame
- Spirit Level
- Leveling Feet

Load Cells Used: (One center mounted load cell)

Ohaus Model: LBZ3-D-C3, 30kg, LBZ3-A-C3 50 kg, 100 kg / LBZ-B-C3 100 kg 250 kg / LBZ-C-C3 250 kg 500 kg 750 kg
 Mettler-Toledo Model: SLP532 in 30 kg, 50 kg, 100 kg, and 300 kg capacity.
 Mettler-Toledo Model: SLP533 in 300 kg and 500 kg capacity.

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
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Ohaus Corporation

Weighing/Load Receiving Element / i-DxB1y and i-DxC1y 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 tamper evident label affixed 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 performed through the indicator and sealed according to the manufacturer's instructions for the indicator used.

Test Conditions: The emphasis of the evaluation was on the device design, operation, performance, markings, and compliance with influence factors. The following six Ohaus weighing load receiving elements were submitted for evaluation. The i-D15B1R 15 kg x 0.005 kg, the i-D15C1R 15 kg x 0.005 kg, i-D150B1X 150 kg x 0.05 kg, i-D150C1L 150 kg x 0.05 kg, i-D300C1X 300 kg x 0.1 kg and i-D600B1V 600 kg x 0.2 kg were interfaced with an Ohaus TD52P indicator (Certificate of Conformance Number 18-065). Multiple increasing/decreasing, discrimination, eccentricity, and suitability of level indicator testing was performed. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Permanence testing was performed with a load of approximately one-half capacity and was applied to the three models of weighing load receiving elements over 100 000 times. The weighing load receiving elements were tested periodically during this period. The increase/decrease eccentricity and discrimination tests were repeated after the conclusion of the permanence test.

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 Weighing Devices*, 2021 Edition.

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

Information Reviewed By: D. Flocken (NCWM)

Examples of Device:

i-DxB1y and i-DxC1y series

