NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Non-Computing Scale
Digital, Postal, Shipping, Jewelers, Grain Test
Model: R71MDx and R71MHDx
n_{max}: See Page 2
e_{min}: See Page 2
Capacity: See Page 2
Platform: 210 x 210 mm (8.2 x 8.2 inch), 280 x 280 mm (11 x 11 inch) or 377 x 311 mm (14.8 x 12.2 inch)
Accuracy Class: II and III

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Standard Features and Options

- Semi-Automatic Zero Setting Mechanism (Push-Button Zero)
- Initial Zero Setting Mechanism (IZSM)
- External Unit Conversion Key
- Center of Zero Light
- Battery Saving Feature (Sleep Mode)
- Keyboard Tare
- Separate Tare Display
- Remote Communication Capability
- LCD Matrix Display
- Automatic or Semi-Automatic Calibration
- Under scale weighing capabilities except for the R71MD60
- Automatic Zero Tracking
- Gross/Net/Tare Display
- Integral Weight Display
- Battery Power Supply
- AC Power
- Semi-Automatic Tare (Platter Tare)
- Programmable Tare
- Linearity Calibration Points (3)
- RS232/USB/Bluetooth
- Weight units (gram, kilogram, pound, ounce, pound ounce)

- M= metal housing
- H= high resolution (H is included with models with electromagnetic force compensation load cells).
- D= dot matrix display
- x= capacity code in kilograms

Temperature Ranges: -10 °C to 40 °C (14 °F to 104 °F) for the Class III models
10 °C to 30 °C (50 °F to 86 °F) for the Class II models

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.

Craig VanBuren
Chairman, NCWM, Inc.

Stephen Benjamin
Committee Chair, NTEP Committee
Issued: February 28, 2020

Ohaus Corporation

Non-Computing Scale / R71MDx and R71MHDx

Application: For use in general weighing, retail jewelry/precious metal weighing, commercial grain and GIPSA grain weighing applications and postal/shipping applications.

Identification: The self destructive identification badge can be found on the right side of the load receiving element.

Sealing: The load receiving element can be sealed as follows: 1) set the security switch on top of the device to the locked position, 2) install the metal cover over the security switch and 3) thread a wire through the tab on the metal cover and the drilled head screw that secures the metal cover to the housing. If the device includes a secondary load receiving element, the indication terminal can be sealed as follows: 1) set the security switch on the printed circuit board inside the housing to the locked (down) position, 2) thread a wire through the hole in the bottom housing and the drilled head screw that secures the top and bottom housings together.

Operation: When used in the postal or shipping applications the device will display "Postal scale" on the indicator's display.

Models and Capacities:

Model	Capacity	d/e	n_{max}	Class	Temperature	Load Cell
R71MD3	3 kg 6 lb 96 0z	0.0005 kg 0.001 lb 0.02 oz	6 000 6 000 4 800	III	-10 ºC to 40 ºC 14 ºF to 104 ºF	Mettler Toledo 0765 5 kg non-NTEP
R71MD6	6 kg 15 lb 240 oz	0.001 kg 0.002 lb 0.05 oz	6 000 7 500 4 800	III	-10 ºC to 40 ºC 14 ºF to 104 ºF	Mettler Toledo 0765 10 kg non-NTEP
R71MD15	15 kg 30 lb 480 oz	0.002 kg 0.005 lb 0.1 oz	7 500 6 000 4 800	III	-10 ºC to 40 ºC 14 ºF to 104 ºF	Mettler Toledo 0785 20 kg non-NTEP
R71MD35	35 kg 70 lb 1120 oz	0.005 kg 0.01 lb 0.2 oz	7 000 7 000 5 600	III	-10 ºC to 40 ºC 14 ºF to 104 ºF	Mettler Toledo 0785 50 kg non-NTEP
R71MD60	60 kg 150 lb 2400 oz	0.01 kg 0.02 lb 0.5 oz	6 000 7 500 4 800	III	-10 ºC to 40 ºC 14 ºF to 104 ºF	Mettler Toledo 0785 100 kg non-NTEP
R71MHD3	3 kg 6 lb 96 0z	0.0001 kg 0.0002 lb 0.005 oz	30 000 30 000 19 200	II	10 ºC to 30 ºC 50 ºF to 86 ºF	Mettler Toledo IMPDI 4 kg non-NTEP
R71MHD6	6 kg 15 lb 240 oz	0.0002 kg 0.0005 lb 0.01 oz	30 000 30 000 24 000	II	10 ºC to 30 ºC 50 ºF to 86 ºF	Mettler Toledo IMPDI 6 kg non-NTEP
R71MHD15	15 kg 30 lb 480 oz	0.001 kg 0.002 lb 0.05 oz	15 000 15 000 9 600	II	10 ºC to 30 ºC 50 ºF to 86 ºF	Mettler Toledo IMPDI 35 kg non-NTEP
R71MHD35	35 kg 70 lb 1120 oz	0.001 kg 0.002 lb 0.05 oz	35 000 35 000 22 400	II	10 ºC to 30 ºC 50 ºF to 86 ºF	Mettler Toledo IMPDI 35 kg non-NTEP

All approved models have the capability of being connected to an optional secondary load receiving element. The secondary load receiving element is limited to an nmax of 6 000.

Postal Application Configurations:

Model	Capacity and Division	n_{max}
R71MD3	6 lb x 0.02 oz	4 800
R71MD6	15 lb x 0.05 oz	4 800
R71MD15	30 lb x 0.1 oz	4 800
R71MD35	70 lb x 0.2 oz	5 600
R71MD60	150 lb x 0.5 oz	4 800
R71MHD3	6 lb x 0.005 oz	19 200
R71MHD6	15 lb x 0.01 oz	24 000
R71MHD15	30 lb x 0.05 oz	9 600
R71MHD35	70 lb x 0.05 oz	22 400

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Test Conditions: This Certificate supersedes Certificate of Conformance 14-033A1 and is issued to add weighing under the scale and Bluetooth serial adapter and to update the contact and model number information. For this evaluation an Ohaus Model R71MD3, R71MD35, R71MHD3 and R71MHD35 were submitted for evaluation. Several increasing/decreasing load tests were performed. Previous test conditions are listed below for reference.

Certificate of Conformance Number (14-033A1): This Certificate supersedes Certificate of Conformance 14-033 and is issued to add model R71MD60. An Ohaus Model R71MD60 was submitted for evaluation. The emphasis of the evaluation was on the device design, marking requirements,operation, performance, and compliance with influence factor requirements. Several increasing/decreasing load tests, shift tests, and discrimination tests were performed. A half capacity load was applied 100,000 times and the unit was tested after every 25,000 applications. The device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Tests were also conducted using 102 VAC and 264 VAC. Previous test conditions are listed below for reference.

Certificate of Conformance Number (14-033): These devices were 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. All required checklist evaluation, influence factor tests and a permanence test were conducted

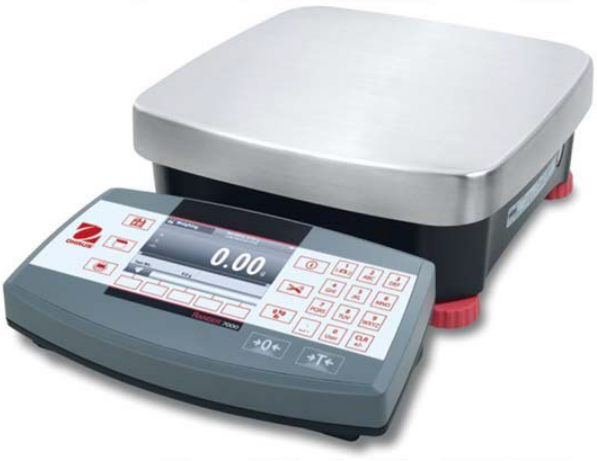
Evaluated By: Simon Marchand (MC), E.A.Payne, Jr (MD) 14-033; N. Fowler (MC), E. Morabito (NY) 14-033A1, M. Kelley (OH) 14-033A2

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2020 Edition. *NCWM Publication 14 Weighring Devices*, 2019 Edition.

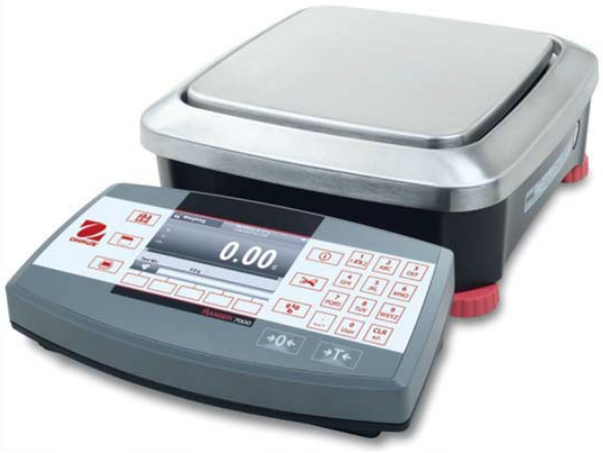
Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: J. Truex (NCWM) 14-033, 14-033A1, D. Flocken (NCWM) 14-033A2

Examples of Device:



R71MD3, R71MD6



R71MHD3, R71MHD6

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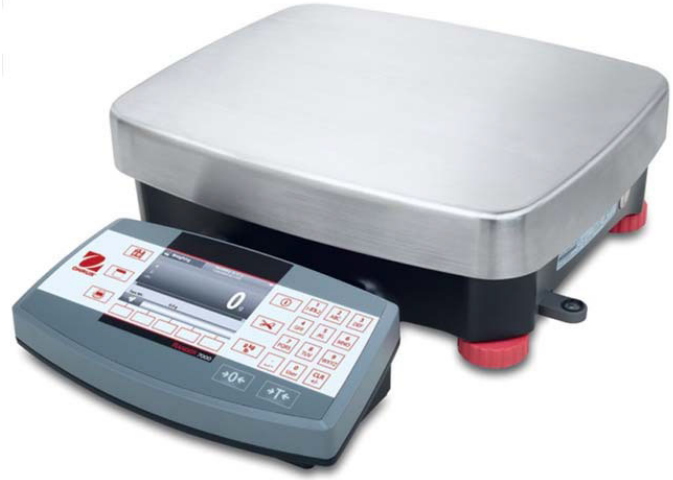
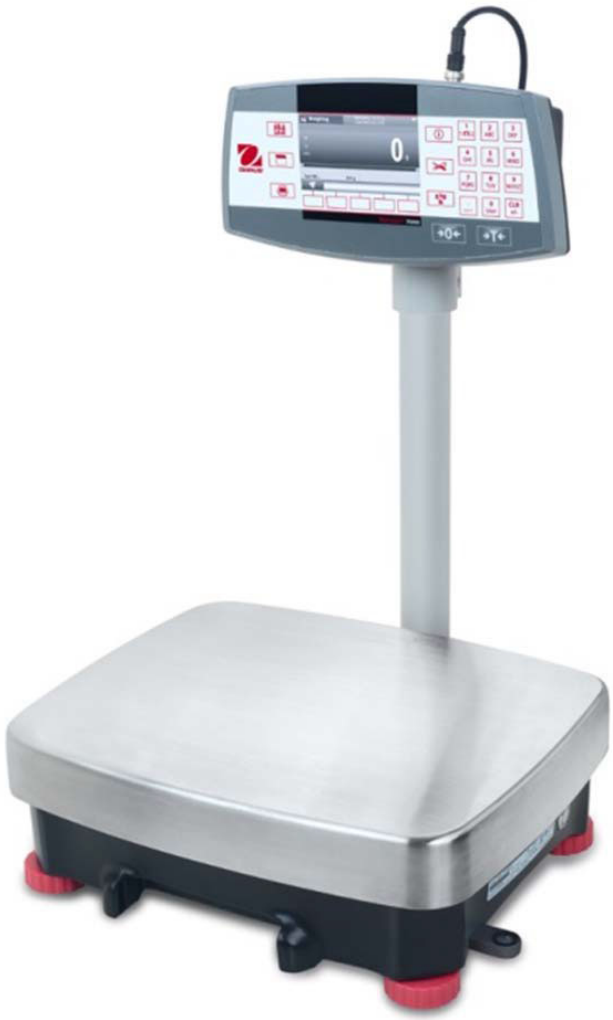


R71MD15, R71MD35, R71MD60, R71MHD15, R71MHD35



R71MDx, R71MHDx with optional column

Underweighing attachment points:

R71MD3, R71MD6

R71MHD3, R71MHD6

R71MD15, R71MD35,
R71MHD15, R71MHD35