



## 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.

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**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 <sub>max</sub>	Class	Temperature	Load Cell
R71MD3	3 kg	0.0005 kg	6 000	III	-10 °C to 40 °C 14 °F to 104 °F	Mettler Toledo 0765 5 kg non-NTEP
	6 lb	0.001 lb	6 000			
	96 Oz	0.02 oz	4 800			
R71MD6	6 kg	0.001 kg	6 000	III	-10 °C to 40 °C 14 °F to 104 °F	Mettler Toledo 0765 10 kg non-NTEP
	15 lb	0.002 lb	7 500			
	240 oz	0.05 oz	4 800			
R71MD15	15 kg	0.002 kg	7 500	III	-10 °C to 40 °C 14 °F to 104 °F	Mettler Toledo 0785 20 kg non-NTEP
	30 lb	0.005 lb	6 000			
	480 oz	0.1 oz	4 800			
R71MD35	35 kg	0.005 kg	7 000	III	-10 °C to 40 °C 14 °F to 104 °F	Mettler Toledo 0785 50 kg non-NTEP
	70 lb	0.01 lb	7 000			
	1120 oz	0.2 oz	5 600			
R71MD60	60 kg	0.01 kg	6 000	III	-10 °C to 40 °C 14 °F to 104 °F	Mettler Toledo 0785 100 kg non-NTEP
	150 lb	0.02 lb	7 500			
	2400 oz	0.5 oz	4 800			
R71MHD3	3 kg	0.0001 kg	30 000	II	10 °C to 30 °C 50 °F to 86 °F	Mettler Toledo IMPDI 4 kg non-NTEP
	6 lb	0.0002 lb	30 000			
	96 Oz	0.005 oz	19 200			
R71MHD6	6 kg	0.0002 kg	30 000	II	10 °C to 30 °C 50 °F to 86 °F	Mettler Toledo IMPDI 6 kg non-NTEP
	15 lb	0.0005 lb	30 000			
	240 oz	0.01 oz	24 000			
R71MHD15	15 kg	0.001 kg	15 000	II	10 °C to 30 °C 50 °F to 86 °F	Mettler Toledo IMPDI 35 kg non-NTEP
	30 lb	0.002 lb	15 000			
	480 oz	0.05 oz	9 600			
R71MHD35	35 kg	0.001 kg	35 000	II	10 °C to 30 °C 50 °F to 86 °F	Mettler Toledo IMPDI 35 kg non-NTEP
	70 lb	0.002 lb	35 000			
	1120 oz	0.05 oz	22 400			

*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 n<sub>max</sub> of 6 000.*

**Postal Application Configurations:**

Model	Capacity and Division	n <sub>max</sub>
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



**Ohaus Corporation**  
Non-Computing Scale / R71MDx and R71MHDx

**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 Weighing 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



**Ohaus Corporation**  
Non-Computing Scale / R71MDx and R71MHDx



R71MD15, R71MD35, R71MD60, R71MHD15, R71MHD35

R71MDx, R71MHDx with optional column

Underweighing attachment points:



R71MD3, R71MD6



R71MHD3, R71MHD6



R71MD15, R71MD35,  
R71MHD15, R71MHD35