



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Digital Electronic
Model: R31Px, R31PEx, R41MEEx, RC31Px, RC41Mx & V71Px
 n_{max} : 3000
 e_{min} : See Page 2
Capacity: 3 lb to 60 lb / 1.5 kg to 30 kg (See Page 2)
Platform: 11.8" x 8.9" (30 cm x 22.5 cm)
Accuracy Class: III

***Submitted By: Contact Info. Updated November 2020**

Ohaus Corporation
7 Campus Drive, Suite 310
Parsippany, NJ 07054
Tel: 973-377-9000
Fax: 973-944-7177
Contact: Al Go
Email: AL.GO@ohaus.com
Website: www.ohaus.com

Standard Features and Options

- Semi-Automatic (Push-button) Zero Setting Mechanism
- Automatic Zero Setting Mechanism (AZT) Gross Zero
- Initial Zero Setting Mechanism (IZSM)
- Keyboard Tare
- Semi-Automatic (Push-button) Tare
- Programmable Tare
- Liquid Crystal (LCD) Display or LED Display
- Gross/Net Display
- Gross/Net/Tare Display (RC31Px, RC41Mx Series Only)
- Center of Zero Light
- Unit Conversion Key (External)
- Weight Units: pound, ounce, kilogram, gram
- Accumulation Feature (Manual and Automatic)
- Multi-Weighing Elements (RC31Px, R41MEEx, RC41Mx Series Only)
- "The Counting Feature is Not Legal for Trade" is labeled on the front of the scale.
- Optional 2nd RS-232 Interface, USB Interface, Ethernet Interface, Bluetooth® Serial Adapter
- RS-232 Interface
- AC Power
- Rechargeable Battery Power
- Power Saving Feature (Sleep Mode and Auto Shut-Off)
- Category 1 Audit Trail
- Optional Hanging Scale Attachment

x = scale capacity up to 4 digits

Load Cell Used: Mettler Toledo AMI 3 kg, 5 kg, 11 kg, 22 kg and 40 kg (Non-NTEP)

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.

Craig VanBuren
Chairman, NCWM, Inc.

Stephen Benjamin
Committee Chair, NTEP Committee
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1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Non-Computing Scale / R31Px, R31PEx, R41MEx, RC31Px, RC41Mx & V71PxT

Application: For use in general purpose weighing.

Identification: G.S.1 information is placed on a pressure sensitive or tamper proof identification badge.

Sealing: A category 1 audit trail and or physical seal can be used. To access the audit trail press and hold the **MENU** button. While the button is held, the display will show **MENU** followed by **AUDIT**. Release the **MENU** button when **AUDIT** is displayed to view the audit trail information. The audit trail information is displayed in the format **CFGxxx** and **CALxxx**. If a physical seal is to be used, apply a wire/tamper evident paper seal to the **Menu Lock** switch found underneath the scale.

Models, e_{min}, and capacities:

Model	Capacity	e	n _{max}
R31P1502, R31PE1502	3 lb / 1.5 kg	0.001 lb / 0.0005 kg	3000
R31P3, R31PE3	6 lb / 3 kg	0.002 lb / 0.001 kg	3000
R31P6, R31PE6	15 lb / 6 kg	0.005 lb / 0.002 kg	3000
R31P15, R31PE15	30 lb / 15 kg	0.01 lb / 0.005 kg	3000
R31P30, R31PE30	60 lb / 30 kg	0.02 lb / 0.01 kg	3000
RC31P1502	3 lb / 1.5 kg	0.001 lb / 0.0005 kg	3000
RC31P3	6 lb / 3 kg	0.002 lb / 0.001 kg	3000
RC31P6	15 lb / 6 kg	0.005 lb / 0.002 kg	3000
RC31P15	30 lb / 15 kg	0.01 lb / 0.005 kg	3000
RC31P30	60 lb / 30 kg	0.02 lb / 0.01 kg	3000
V71P1502T	3 lb / 1.5 kg	0.001 lb / 0.0005 kg	3000
V71P3T	6 lb / 3 kg	0.002 lb / 0.001 kg	3000
V71P6T	15 lb / 6 kg	0.005 lb / 0.002 kg	3000
V71P15T	30 lb / 15 kg	0.01 lb / 0.005 kg	3000
V71P30T	60 lb / 30 kg	0.02 lb / 0.01 kg	3000
R41ME3	6 lb / 3 kg	0.002 lb / 0.001 kg	3000
R41ME6	15 lb / 6 kg	0.005 lb / 0.002 kg	3000
R41ME15	30 lb / 15 kg	0.01 lb / 0.005 kg	3000
R41ME30	60 lb / 30 kg	0.02 lb / 0.01 kg	3000
RC41M3	6 lb / 3 kg	0.002 lb / 0.001 kg	3000
RC41M6	15 lb / 6 kg	0.005 lb / 0.002 kg	3000
RC41M15	30 lb / 15 kg	0.01 lb / 0.005 kg	3000
RC41M30	60 lb / 30 kg	0.02 lb / 0.01 kg	3000

(E) In the model number means the device has an LED display.

(T) In the model number means the device has a rear display.

Test Conditions: This certificate supersedes Certificate of Conformance number 13-022A1 and is issued to add a hanging scale attachment. The emphasis of the evaluation was on device design and performance requirements. A pan was suspended from the hanging scale attachment and several performance tests were conducted to verify the device functioned correctly. A 1.5 kg capacity scale and a 30 kg capacity scale were tested. No other tests were deemed necessary. The previous test conditions are listed below for reference.

Certificate of Conformance Number 13-022A1: This certificate supersedes Certificate of Conformance number 13-022 and is issued to add the models R41MEx and RC41Mx to the Ranger family of scales. The 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 13-022: 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 NCWM Publication 14



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Non-Computing Scale / R31Px, R31PEX, R41MEX, RC31Px, RC41Mx & V71PxT

and NIST Handbook 44 requirements. The emphasis of the evaluation was on device design, operation, performance, and compliance with influence factor requirements. All required performance tests were conducted, which included: increasing, decreasing, shift, power, environmental chamber and permanence.

Evaluated By: N. Fowler (MC), E. A. Payne, Jr (MD) 13-022, 13-022A1, M. Kelley (OH) 13-022A2

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2019 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) 13-022, 13-022A1, D. Flocken (NCWM) 13-022A2

Examples of Device:



Model R31Px



Model RC31Px



Model V71Px



Model RC41Mx



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Non-Computing Scale / R31Px, R31PEX, R41MEx, RC31Px, RC41Mx & V71PxT



Model R41MEx



Hanging Scale Attachment

