



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Non-Computing Scale  
Digital Electronic  
Model: EXxNy  
 $n_{max}$ : 12 000 to 320 000 (see Page 2)  
 $e_{min}$ : (see Page 2)  
Capacity: (see Page 2)  
Platform: (see Page 2)  
Accuracy Class: I / II

**Submitted By:**

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**Standard Features and Options**

**Model Designation:**

- EX = Type
- x = capacity and readability code 3 to 5 digits
- N = NTEP Approved
- y = option code 0 to 5 characters (including “/”)

**Standard Features:**

- Semi-Automatic (push-button) Zero Setting Mechanism
- Automatic Zero Setting Mechanism (AZSM)
- Initial Zero Setting Mechanism (IZSM)
- Keyboard Tare
- Programmable Tare
- Semi-Automatic (push-button) Tare
- AC/DC Adapter or AC power
- Battery Power Supply (Optional)
- Power Saving Feature (Sleep Mode)
- Alpha Numeric Display
- Liquid Crystal Display
- Weight Units: carat, grain, gram, kilogram, milligram, pennyweight, pound, ounce, troy ounce.
- “The Counting Feature is Not Legal for Trade” or “Counting Feature for Prescription Filling Only” is labeled on the front of the scale.
- Bracketing of the Display is Used to Identify “d” when it is not equal to “e” (d<e)

- Gross/Tare/Net Display
- Touch Screen
- RS-232 and Ethernet (Optional)
- Linearity Calibration Points
- Internal Automatic Calibration

**Load Cell Used:** Mettler Toledo (Non-NTEP)

Temperature Range: 10 °C to 30 °C (50 °F to 86 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *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.

Hal Prince  
Chairman, NCWM, Inc.

Craig VanBuren  
Chair, NTEP Committee  
Issued: January 26, 2021

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**Ohaus Corporation**  
Non-Computing Scale / EXxNy

**Application:** For use in general purpose weighing, retail jewelry/precious metal, prescription weighing, prescription counting, commercial grain and GIPSA grain weighing applications. Class I and II prescription scales will be marked with “The Counting Feature for Prescription Filling Only”.

**Models and Capacities:**

Model	Capacity (g)	e (g)	d (g)	n <sub>max</sub>	Accuracy Class	Platter Dimensions
EX224N, EX224N/AD	220	0.001	0.0001 / 0.001	220000	I	90 mm
EX324N, EX324N/AD	320	0.001	0.0001 / 0.001	320000	I	90 mm
EX1103N	1100	0.01	0.001 / 0.01	110000	I	130 mm
EX10202N	10 200	0.1	0.01 / 0.1	102000	I	180 x 210 mm
EX10201N	10 200	0.1	0.1	102000	I	180 x 210 mm
EX223N, EX223N/E	220	0.01	0.001 / 0.01	22000	II	130 mm
EX423N, EX423N/E	420	0.01	0.001 / 0.01	42000	II	130 mm
EX2202N/E	2200	0.1	0.01 / 0.1	22000	II	180 x 210 mm
EX4202N, EX4202N/E	4200	0.1	0.01 / 0.1	42000	II	180 x 210 mm
EX6202N, EX6202N/E	6200	0.1	0.01 / 0.1	62000	II	180 x 210 mm
EX6201N, EX6201N/E	6200	0.1	0.1	62000	II	180 x 210 mm
EX12001N	12000	1	0.1 / 1	12000	II	377 x 311 mm
EX24001N	24000	1	0.1 / 1	24000	II	377 x 311 mm
EX35001N	35000	1	0.1 / 1	35000	II	377 x 311 mm

**Identification:** The required information appears on a self-adhesive badge on the side of the device.

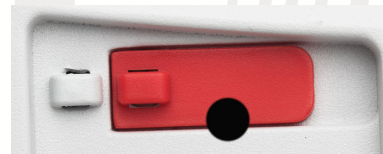
**Sealing:** The balance may be sealed using a wire seal or paper seal attached to the bottom housing. The wire seal is threaded through a tab on the sliding cover and a tab on the bottom housing. The paper seal is placed over the seam between the sliding cover and the bottom housing. The seal secures a sliding cover which locks the security switch in the “ON” position and prevents the scale from being opened. When the security switch is set to the “ON” position, calibration and changes to metrological settings are blocked.



Un-Locked



Locked with Wire Seal



Locked with Paper Seal

**Test Conditions:** This Certificate supersedes Certificate of Conformance number 12-012 and is issued to add additional models and capacities. EX6202N and EX35001N were submitted to and evaluated by Measurement Canada under the U.S. and Canadian MRA. The emphasis of the evaluation was on device design, operation, performance, and compliance with influence factor requirements. Tests to verify compliance with zero, zone of uncertainty and motion detection requirements were performed. Voltage variation tests were also performed. A checklist was completed and several increasing/decreasing and shift tests were performed. The scale was tested over a temperature range of 10 °C to 30 °C (50 °F to 86 °F). A load of approximately one-half capacity was applied to the scale over 100 000 times. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 12-012:** This device was submitted to and evaluated by Measurement Canada under the U.S. and Canadian MRA. The emphasis of the evaluation was on device design, operation, performance, and compliance with influence factor requirements. Tests to verify compliance with zero, zone of uncertainty and motion detection requirements were performed. A checklist was completed and several increasing/decreasing and shift tests were performed. The scale was tested over a temperature range of 10 °C to 30 °C (50 °F to 86 °F). A load of approximately one-half capacity was applied to the scale over 100 000 times. The scale was tested periodically over this time. Voltage variation tests were also performed. The technical data was reviewed by the Maryland NTEP laboratory for compliance with Publication 14 and NIST Handbook 44 requirements.



**Ohaus Corporation**  
Non-Computing Scale / EXxNy

**Evaluated By:** N. Fowler (MC) 12-012, 12-012A1; E. A. Payne, Jr (MD) 12-012; M. Manheim (NCWM) 12-012A1

**Type Evaluation Criteria Used:** *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2020 Edition. *NCWM Publication 14: Measuring Devices*, 2020 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)12-012; D. Flocken (NCWM) 12-012A1

**Example(s) of Device:**



EX224Ny, EX324Ny, EX223Ny  
EX423N, EX1103N



EX2202Ny, EX4202Ny, EX6202Ny  
EX6201Ny, EX10201N, EX10202Ny



EX12001N, EX24001N, EX35001N