



## NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Non-Computing Scale  
 Digital Electronic  
 Model: Adventurer AXxNy  
 $n_{max}$ : 5200 to 220 000 (see below)  
 $e_{min}$ : (see below)  
 Capacity: 220 g to 8200 g (see below)  
 Platform Size (see below)  
 Accuracy Class: I, II

**Submitted By:**

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**Standard Features and Options**

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic Zero (Push Button)
- Semi-Automatic Tare (Push Button)
- Programmable Tare
- AC/DC Power Supply
- Gross/Net Display
- Automatic or Semi-Automatic Calibration
- Bracketing of the Display is Used to Identify "d" when it is not equal to "e" ( $d < e$ )
- Weight Units: carat, grain, gram, kilogram, milligram, pennyweight, pound, ounce, troy ounce.
- Integral Display
- Liquid Crystal Display
- Separate Gross/Tare/Net Display
- Touch Screen Display
- RS 232/USB
- Linearity Calibration points (3)
- Weight Accumulation (Manual)
- "The Counting Feature is Not Legal for Trade" or "Counting Feature for Prescription Filling Only" is labeled on the front of the scale.
- Ethernet (optional)

Model Description: **E**= External Calibration Weights Required, **GN**= Grain Test Scale

| Model       | Capacity (g) | e       | d        | $n_{max}$ | Class | Platter Dimensions | Load Cell Used |
|-------------|--------------|---------|----------|-----------|-------|--------------------|----------------|
| AX224N      | 220 g        | 0.001 g | 0.0001 g | 220 000   | I     | 90 mm              | NMBA           |
| AX423N      | 420 g        | 0.01 g  | 0.001 g  | 42 000    | II    | 130 mm             | AX523PC        |
| AX223N/E    | 220 g        | 0.01 g  | 0.001 g  | 22 000    | II    | 130 mm             | AX523PE        |
| AX423N/E    | 420 g        | 0.01 g  | 0.001 g  | 42 000    | II    | 130 mm             | AX523PE        |
| AX523N/E    | 520 g        | 0.01 g  | 0.001 g  | 52 000    | II    | 130 mm             | AX523PE        |
| AX522N/E    | 520 g        | 0.1 g   | 0.01 g   | 5200      | II    | 175 x 195 mm       | AX5202PE       |
| AX622N/E    | 620 g        | 0.1 g   | 0.01 g   | 6200      | II    | 175 x 195 mm       | AX5202PE       |
| AX822N/E    | 820 g        | 0.1 g   | 0.01 g   | 8200      | II    | 175 x 195 mm       | AX5202PE       |
| AX1502N/E   | 1520 g       | 0.1 g   | 0.01 g   | 15 200    | II    | 175 x 195 mm       | AX5202PE       |
| AX2202N/E   | 2200 g       | 0.1 g   | 0.01 g   | 22 000    | II    | 175 x 195 mm       | AX5202PE       |
| AX4202N/E   | 4200 g       | 0.1 g   | 0.01 g   | 42 000    | II    | 175 x 195 mm       | AX5202PE       |
| AX4202N/EGN | 4200 g       | 0.1 g   | 0.01 g   | 42 000    | II    | 175 x 195 mm       | AX5202PE       |
| AX8201N/E   | 8200 g       | 1 g     | 0.1 g    | 8200      | II    | 175 x 195 mm       | LSVK           |

**Load Cells Used:** Mettler Toledo non-NTEP (see table above)

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 "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.

Ronald Hayes  
 Chairman, NCWM, Inc.

John Gaccione  
 Committee Chair, National Type Evaluation Program Committee  
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**Ohaus Corporation**  
Non-Computing Scale / Adventurer AXxNy

**Application:** For general purpose weighing, retail jewelry/precious metal weighing, prescription weighing, prescription counting, weighing of grain in commercial and UDSA/GIPSA applications.

**Identification:** G.S.1 information is placed on a pressure sensitive or tamper proof identification badge located on the side of the device.

**Sealing:** A category 1 seal is used. To seal the device, a wire security seal may be threaded through tabs in a sliding cover and the base housing at the rear of the balance. Alternately, a destructible sealing label may be affixed to the sliding cover and the base housing. When the sliding cover is sealed in the locked position, access to the calibration switch inside the housing is prevented. Remote calibration and configuration are also blocked when the balance is sealed.

**Test Conditions:** 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 Publication 14 and NIST Handbook 44 requirements. The emphasis of the evaluation was on device design, operation, performance, permanence and compliance with influence factor requirements. Several increasing/decreasing load and shift tests were performed. The scales were tested over a temperature range of 10 °C to 30 °C (50 °F to 86 °F). Tests were also conducted with a power supply of 100VAC and 130VAC.

**Evaluated By:** J. Rae (MC), E.A. Payne, Jr (MD)

**Type Evaluation Criteria Used:** *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2014 Edition. NCWM Publication 14 Measuring Devices, 2014 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)

**Examples of Device:**

