



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
 Digital Electronic
 Model: 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**Model Designation:** (where)

- AX = Type
- x = Capacity and Readability Code (3 to 4 numeric characters)
- N = NTEP Certified
- y = Feature Code (0 to 4 alphanumeric characters), where blank = internal calibration, /E = external calibration only, and GN = Test Weight and Dockage functions for grain testing.

Features and Functions:

- 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
- Shading or 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)
- Test Weight mode (Model AX4202N/EGN, AX5202N/EGN)
- Dockage percent mode (Model AX4202N/EGN, AX5202N/EGN)

Load Cells Used: Mettler Toledo non-NTEP (see table page 2)

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.

Craig VanBuren
 Chairman, NCWM, Inc.

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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.

Specific Models, Capacities and Parameters:

Model	Capacity (g)	e	d	n _{max}	Class	Platter Dimensions	Load Cell Used
AX224N	220 g	0.001 g	0.0001 g or 0.001 g	220 000	I	90 mm	NMBA
AX423N	420 g	0.01 g	0.001 g or 0.01 g	42 000	II	130 mm	AX523PC
AX223N/E	220 g	0.01 g	0.001 g or 0.01 g	22 000	II	130 mm	AX523PE
AX423N/E	420 g	0.01 g	0.001 g or 0.01 g	42 000	II	130 mm	AX523PE
AX523N/E	520 g	0.01 g	0.001 g or 0.01 g	52 000	II	130 mm	AX523PE
AX522N/E	520 g	0.1 g	0.01 g or 0.1 g	5200	II	175 x 195 mm	AX5202PE
AX622N/E	620 g	0.1 g	0.01 g or 0.1 g	6200	II	175 x 195 mm	AX5202PE
AX822N/E	820 g	0.1 g	0.01 g or 0.1 g	8200	II	175 x 195 mm	AX5202PE
AX1502N/E	1520 g	0.1 g	0.01 g or 0.1 g	15 200	II	175 x 195 mm	AX5202PE
AX2202N/E	2200 g	0.1 g	0.01 g or 0.1 g	22 000	II	175 x 195 mm	AX5202PE
AX4202N/E	4200 g	0.1 g	0.01 g or 0.1 g	42 000	II	175 x 195 mm	AX5202PE
AX4202N/EGN	4200 g	0.1 g	0.01 g or 0.1 g	42 000	II	175 x 195 mm	AX5202PE
AX5202N/EGN	5200g	0.1g	0.01 g or 0.1 g	52000	II	175 x 195 mm	IMPDI6000G2-3C
AX8201N/E	8200 g	1 g	0.1 g or 1 g	8200	II	175 x 195 mm	LSVK

Note: The division size (d) is selected in the device's Setup menu. The d value cannot be changed when the device is in Approved Mode and sealed.

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 Certificate supersedes Certificate of Conformance Number 14-082A2 and is issued to update the model description and to add alternate values for the division size “d”. No additional testing was required. Previous test conditions are listed below for reference.

Certificate of Conformance Number 14-082A2: This Certificate supersedes Certificate of Conformance Number 14-082A1. The emphasis of the evaluation was on operation, performance, permanence and compliance with influence factor requirements. A new model was submitted. Model:AX5202N/ECN with a Mettler- Toledo model IMPDI6000G2-3C load cell. 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. A load of approximately ½ capacity was applied to the scale over 100 000 times, and the scale was tested periodically during the permanence test. Previous test conditions are listed below for reference.

Certificate of Conformance Number 14-082A1: This Certificate supersedes Certificate of Conformance Number 14-082 and is issued to clarify that d may be differentiated by shading or bracketing, clarify that model AX4202N/EGN includes the Test Weight and Dockage modes for grain testing and add the ability to set the division size to 0.01 g or 0.1 g for model AX4202N/EGN. All items were tested and verified. Previous test conditions are listed below for reference.

Certificate of Conformance Number 14-082: 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) 14-082; M. Kelley (OH) 14-082A1, 14-082A2



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Non-Computing Scale / Adventurer AXxNy

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2018 Edition. *NCWM Publication 14 Weighing Devices*, 2018 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) 14-082, 14-082A1, 14-082A2; D. Flocken (NCWM) 14-082A3

Examples of Device:

