Adventurer® Analytical and Precision Balances

Model	AX124	AX224	AX324	AX223	AX423	AX523	—	AX622	—	AX1502	AX2202	AX4202	AX5202	—	AX4201	AX8201
External Calibration	**AX124/E**	**AX224/E**	**—**	**AX223/E**	**AX423/E**	**AX523/E**	**AX422/E**	**—**	**AX822/E**	**AX1502/E**	**AX2202/E**	**AX4202/E**	**—**	**AX2201/E**	**AX4201/E**	**AX8201/E**
Certified Models	**—**	**AX224N**	**—**	**AX223N/E**	**AX423N AX423N/E**	**AX523N/E**	**—**	**—**	**—**	**AX1502N/E**	**AX2202N/E**	**AX4202N/E**	**—**	**—**	**—**	**AX8201N/E**
Capacity (g)	120	220	320	220	420	520	420	620	820	1,520	2,200	4,200	5,200	2,200	4,200	8,200
Readability d (g)	0.0001			0.001			0.01							0.1		
Verification Interval* e (g)	—	0.001	—	0.01			0.1						—	—	—	1
Class*	—	I	—	II			II						—	—	—	II
Repeatability std (g)	±0.0001			±0.001			±0.01							±0.1		
Linearity (g)	±0.0002			±0.002			±0.02							±0.2		
Stabilization Time (sec)	≤3			≤2			≤1.5							≤1.5		
Sensitivity Drift (ppm/°C)	1.5			3			3						1.9	9		
Typical Min-weight (g)) (USP, u=0.10%, k=2)	0.20g	0.20g	0.20g	2.0g	2.0g	2.0g	20.0g	20.0g	20.0g	20.0g	20.0g	20.0g	20.0g	200.0g	200.0g	200.0g
Optimized Min-weight (g) (USP, u=0.10%, k=2) SRP**≤0.41d	0.082g	0.082g	0.082g	0.82g	0.82g	0.82g	8.2g	8.2g	8.2g	8.2g	8.2g	8.2g	8.2g	82g	82g	82g
Weighing Units	gram, milligram, mesgal, momme, Newton, ounce, pennyweight, Baht, carat, grain, pound (only for 0.1g and 0.01g models), Tael (Hong Kong), Tael, (Singapore), Tael (Taiwan), tical, tola, troy ounce, custom (1)															
Weighing Units, Certified Models	—	ct, grain, g, mg, oz, ozt, dwt	—	—	ct, grain, g, mg, oz, ozt, dwt		ct, grain, g, oz, ozt, dwt, lb, kg						—	—	—	ct, grain, g, oz, ozt, dwt, lb, kg
Weighing Applications	Weighing, Parts Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Formulation, Density Determination, Totalization, Display Hold															
Pan Size	Ø 3.5 in / 90 mm			Ø 5.1 in / 130 mm			6.9 x 7.7 in / 175 x 195 mm							6.9 x 7.7 in / 175 x 195 mm		
Calibration	All models feature external calibration. Models feature AutoCal™ internal calibration, except for AX.../E models															
Tare Range	To capacity by subtraction															
Power Requirements	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A															
Display Type	Full-Color Touchscreen WQVGA Graphic LCD															
Display Size	4.3 in / 109 mm (diagonal)															
Base Housing (W×H×D)	13.93 x 13.39 x 9.05 in / 354 × 340 × 230 mm						13.93 × 3.94 × 9.05 in / 354 × 100 × 230 mm									
Communication	RS232, USB Device, USB Host															
Temperature Range	50°F to 86°F/10°C to 30°C															
Humidity Range	Maximum relative humidity 80 % for temperatures up to 86°F/30°C															
Storage Conditions	14°F/-10°C to 140°F/60°C at 10% to 90% relative humidity, non-condensing															
Shipping Dimensions	20.0 × 15.4 × 20.9 in / 507 × 387 × 531 mm						22.0 × 15.5 × 11.9 in / 557 × 392 × 301 mm									
Net Weight	11.3 lb / 5.1 kg			12.8 lb / 5.8 kg			10.2 lb / 4.6 kg							10.2 lb / 4.6 kg		8.4 lb / 3.8 kg
Shipping Weight	17.2 lb / 7.8 kg			18.8 lb / 8.5 kg			14.4 lb / 6.5 kg							14.4 lb / 6.5 kg		12.6 lb / 5.7 kg

*Certified models only
**The value for SRP is the standard deviation for n replicate weighing's (n≥10)

Additional Features

RS232 interface, integral weigh below hook, full housing in-use cover, removable stainless steel pan, die-cast metal bottom housing, security bracket, illuminated up-front level indicator, four adjustable feet, software lockout menus, stability indicator, software overload/underload indicators, user selectable environmental settings, audible indicator, user selectable brightness settings, auto dim, touchscreen calibration, auto tare, user selectable operating language (nine)

Approvals

Metrology: NIST Handbook 44, Measurement Canada Weights and Measures Regulations (Class I, nmax 220000; Class II, nmax 52000)
Product Safety: CSA C22.2 No. 61010-1, UL 61010-1, IEC 61010-1
Electromagnetic Compatibility: FCC Part 15 Class A, ICES-001 Class A, IEC 61326-1 (emissions Class B, immunity Industrial requirements)

Accessories

STP103 Printer 80251992
SF40A Impact Printer 30064203
Auxiliary Display 80251396
Density Determination Kit 80253384
Cable, USB Interface (Type A to B) 83021085
Security Device (Laptop Lock) 80850043
RS232 Cable, PC 25 Pin 80500524
RS232 Cable, PC 9 Pin 80500525

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OHAUS CORPORATION
*7 Campus Drive
Suite 310
Parsippany, NJ 07054 USA

Tel: 800.672.7722
973.377.9000
Fax: 973.944.7177

www.ohaus.com

With offices throughout Europe, Asia and Latin America

*ISO 9001:2008 Registered Quality Management System

OHAUS®

Adventurer®

Analytical and Precision Balances

By Model

The Most Complete Balance in its Class!

Striking the ideal balance between inventive features and functional, uncomplicated weighing capabilities, the OHAUS Adventurer incorporates all of the applications necessary for routine weighing and measurement activities. With a color touchscreen, GLP/GMP compliance capabilities, two USB ports, ingenious draftshield, and much more, Adventurer is the most complete balance in its class.

Standard Features Include:

- **Stability, Accuracy, and Fast Operation Ensure Optimal Weighing Results** — This trio of characteristics ensures the most important aspects of routine laboratory weighing are covered: accurate results, achieved quickly, that you can count on.
- **Color Touchscreen & Connectivity Options Power a Modern Weighing Experience** — The wide viewing angle color touchscreen offers quick access to all of Adventurer's applications. Dual USB ports and the ability to store GLP/GMP information assist in the monitoring and reporting of data.
- **Space-saving Draftshield Improves User Experience and Accessibility** — The two piece, top-mounted draftshield doors open wide on both sides, providing ample room for sample placement, and also reduce the footprint of the draftshield in the rear of the balance when open.

Adventurer® Analytical and Precision Balances

Stability, Accuracy, and Fast Operation Ensure Optimal Weighing Results in Routine Weighing Tasks

Weighing Performance

- **Delivers stable and reliable weighing results for routine weighing tasks**

Stabilization Time

- **Adventurer's fast stabilization time improves productivity in the laboratory**

Calibration

- **External Calibration**
  - — Traditional calibration in which the operator manually calibrates the balance with their choice of calibration weight value to ensure accuracy available on every model.
- **AutoCal™**
  - — Selected models feature OHAUS' automatic internal calibration system that performs routine maintenance by calibrating the balance daily.

Color Touchscreen Offers Easy and Fast Operation of Adventurer's Applications

- **Operate and access Adventurer's nine application modes and abundant features that eliminate the need to do several manual calculations through the modern color touchscreen**
- **Operators can wear laboratory gloves while utilizing the touchscreen, eliminating the inconvenience and hazards associated with constantly putting on and removing gloves**
- **In addition to the touchscreen, Adventurer also has six mechanical keys that provide tactile feedback and allow the operator to perform repetitive operations such as tare, zero, calibration, and print**

Application Modes

Weighing
Determine the weight of items in the selected unit of measure.

Parts Counting
Count samples of uniform weight.

Percent Weighing
Measure the weight of a sample displayed as a percentage of a pre-established Reference Weight.

Dynamic Weighing
Weigh an unstable load. Scale takes an average of weights over a period of time.

Density Determination
Determine density of solids or liquid. With the weigh below hook, it's possible to perform specific gravity tests for objects that cannot be easily placed on the weighing pan.

Check Weighing
Compare the weight of a sample against target limits.

Display Hold*
Manually holds the last stable weight or highest weighing value on the display.

Totalization / Statistic
Measure cumulative weight of multiple items. Cumulative total may exceed balance capacity.

Formulation
For compounding and recipe making. The number of components can range from 2 to 50.

*Only NTEP model(AXxxxN) will not have display hold

Equipped with the Connectivity and Functional Features Required in Laboratories

Dual USB Ports

- **A front USB host port is easily accessible and makes it simple to load data from the balance on to a flash drive without having to reach around to the back or move the balance**
- **A second USB device is located at the rear of the balance that can be used to connect the balance to a PC**
- **The connectivity options help meet traceability requirements in traditional installations**

Real Time Clock with GLP/GMP Data

- **A real-time clock function keeps accurate time even during power loss and the GLP data capability has the ability to record Sample name, Project names and Balance ID's to help meet traceability and compliance requirements**

Balance Profiles

- **The cloning feature allows you to save user and application settings to a USB flash drive which can be easily used to configure additional Adventurer balances**

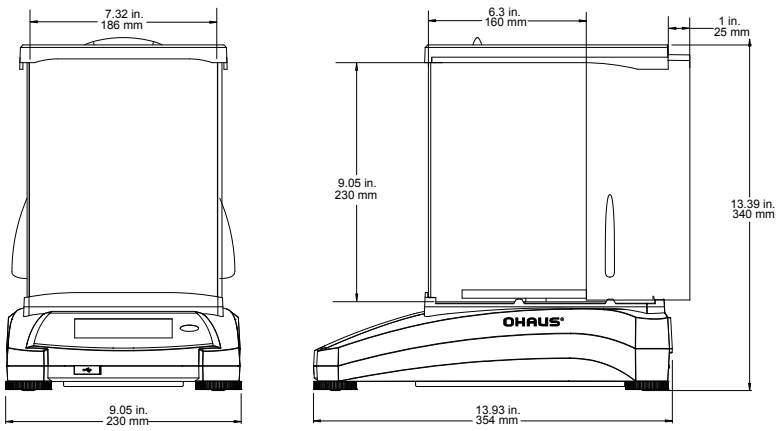
Below Minimum Sample Weight Indication

- **When using the minimum weight feature, the display clearly indicates that your current sample weight is below your defined minimum limit. Simply increase your sample weight to assure that your results are up to your standards**

Space-saving Draftshield Designed to Improve User Experience and Accessibility

- **Draftshield doors are constructed of two glass panels, reducing the space required on the lab bench when the doors are open**
- **Wide door entry provides unobstructed access and allows larger weighing vessels to be easily placed on the pan, reducing the chance of accidental spillage**
- **Easy to keep clean in order to ensure a safe workspace by minimizing contamination**

Outline Dimensions



0.1 and 1mg models

0.01 and 0.1g models