

## *Intuitive Balances Designed for a Variety of Needs*

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, and much more, Adventurer is the most complete balance in its class.

### *Unique Features Include:*

- Adventurer balances feature a color touchscreen, icon-based user interface, and an ergonomic design making them easy to configure and use.
- Features such as specialized weighing modes, multiple connectivity options, and AutoCal™ provide versatility and flexibility for a variety of applications.
- Durable construction, large weighing surfaces, a space-saving draftshield design, and full housing in-use cover allow for use in lab, education and industrial environments.

# Adventurer<sup>®</sup> 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

- **AutoCal™**
  - Select models feature OHAUS' automatic internal calibration system that performs routine maintenance by calibrating the balance daily.
- **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.



## 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.

## 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

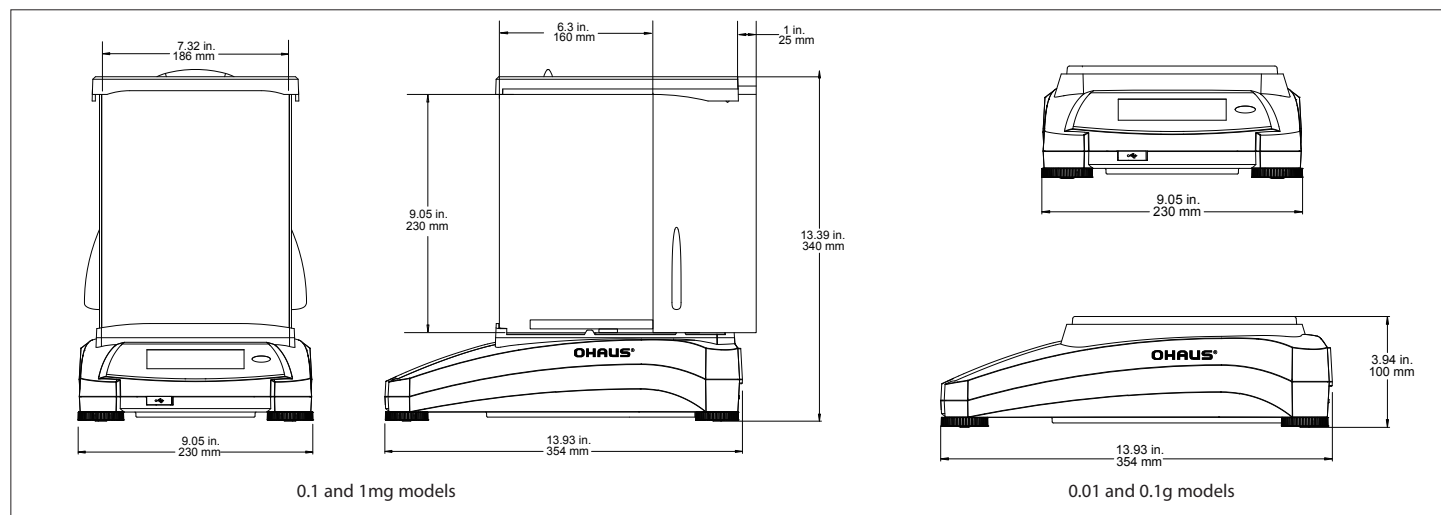
- When using the minimum weight feature, the display clearly indicates that your current sample weight is below your defined minimum limit. Simply increase your sample weight to assure that your results are up to your standards

## 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



# 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	AX622/E	AX1502/E	AX2202/E	AX4202/E	—	AX4201/E	AX8201/E
Capacity (g)	120	220	320	220	420	520	620	1,520	2,200	4,200	5,200	4,200	8,200
Readability d (g)	0.0001			0.001			0.01					0.1	
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	200.0 g	200.0 g
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	82 g	82 g
Weighing Units	gram, milligram, mesgal, momme, Newton, ounce, pennyweight, Baht, carat, grain, pound, Tael (Hong Kong), Tael, (Singapore), Tael (Taiwan), tical, tola, troy ounce, custom (1)												
Weighing Applications	Weighing, Parts Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Formulation, Density Determination, Totalization/Statistic, Display Hold												
Pan Size	Ø 90 mm			Ø 130 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	109 mm / 4.3 in (diagonal)												
Base Housing (WxDxH)	354 × 230 × 340 mm						354 × 230 × 100 mm						
Communication	RS232, USB Device, USB Host												
Temperature Range	10°C to 30°C / 50°F to 86°F												
Humidity Range	Maximum relative humidity 80 % for temperatures up to 30°C / 86°F												
Storage Conditions	-10°C / 14°F to 60°C / 140°F at 10% to 90% relative humidity, non-condensing												
Shipping Dimensions	507 × 387 × 531 mm						557 × 392 × 301 mm						
Net Weight	5.1 kg			5.8 kg			4.6 kg					3.8 kg	
Shipping Weight	7.8 kg			8.5 kg			6.5 kg					5.7 kg	

\*The value for SRP is the standard deviation for n replicate weighings (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: OIML R76, EN 45501 (Class I, nmax 320000; Class II, nmax 52000)

Product Safety: EN 61010-1, IEC 61010-1

Electromagnetic Compatibility: IEC 61326-1, EN 61326-1 (emissions Class B, immunity Industrial requirements)

## Accessories

<b>SF40A Impact Printer</b> .....	30045641
<b>Auxiliary Display (PAD7)</b> .....	80251396
<b>Density Determination Kit</b> .....	80253384
<b>Cable, USB Interface (Type A to B)</b> .....	83021085
<b>Security Device (Laptop Lock)</b> .....	80850043
<b>RS232 Cable, PC 25 Pin</b> .....	80500524
<b>RS232 Cable, PC 9 Pin</b> .....	80500525

80774751\_C 20210825 © Copyright OHAUS Corporation

OHAUS Asia/Pacific  
Headquarters  
7F, Block 33, 680 Guiping Road  
Shanghai 200233  
China

e-mail: APmarketing@ohaus.com  
Tel: +86 21 64855408

*With offices throughout  
Europe, Asia, and  
Latin America*

\* ISO 9001:2008  
Registered Quality  
Management System

