



It's about the journey — and the destination: your lab.

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

- AutoCal™ — Selected 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 / Statistics

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

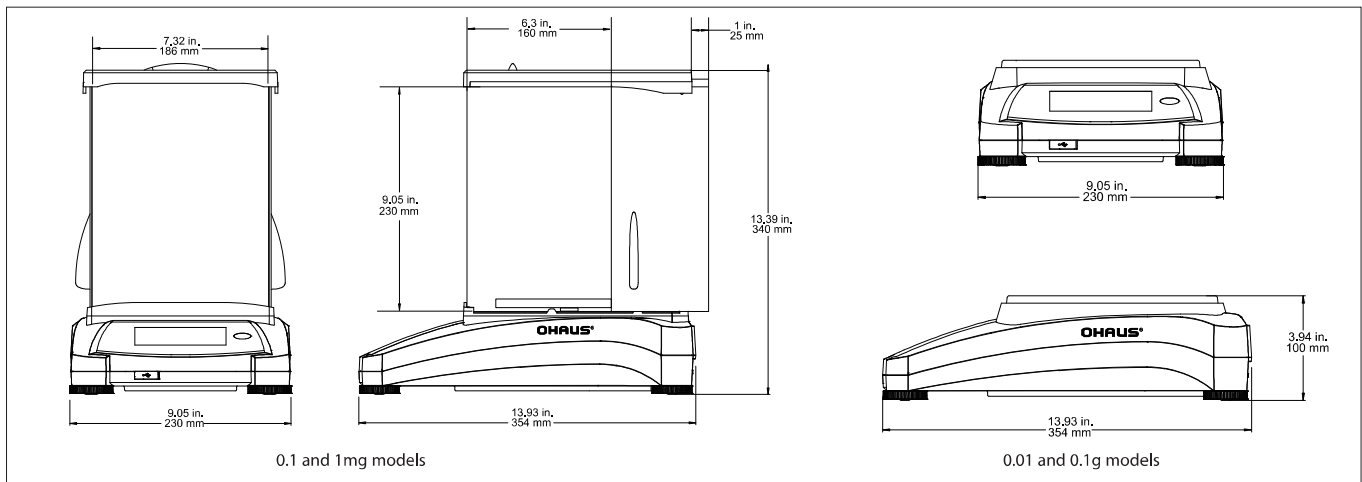
- When using the minimum weight feature, the display clearly indicates that your current sample weight is below your defined minimum limit. Simply increase your sample weight to assure that your results are up to your standards

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 | AX422 | AX822 | AX1502 | AX2202 | AX4202 | AX5202 | AX2201 | 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 |
| Approved Models | AX124M | AX224M | AX324M | AX223M | AX423M | AX523M | — | — | AX1502M | AX2202M | AX4202M | AX5202M | — | — | AX8201M |
| Capacity (g) | 120 | 220 | 320 | 220 | 420 | 520 | 420 | 820 | 1520 | 2200 | 4200 | 5200 | 2200 | 4200 | 8200 |
| Readability d (g) | 0.0001 | | | 0.001 | | | 0.01 | | | 0.1 | | | 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 | | | ±0.1g | | | ±0.1g | | |
| Linearity (g) | ±0.0002 | | | ±0.002 | | | ±0.02 | | | ±0.2g | | | ±0.2g | | |
| Stabilization Time (sec) | ≤3 | | | ≤2 | | | ≤1.5 | | | ≤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 | 200.0 g | 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 | 8.2g | 82 g | 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) | | | | | | | | | | | | Baht, carat, grain, gram, kilogram, mesgal, momme, Newton, ounce, pennyweight, pound, Tael (Hong Kong), Tael, (Singapore), Tael (Taiwan), tical, tola, troy ounce, custom (1) | | |
| Weighing Units, Approved Models | mg, g, ct | | | | | | — | — | g, kg, ct | | | — | g, kg, ct | | |
| Weighing Applications | Weighing, Parts Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Formulation, Density Determination, Totalization, Display Hold | | | | | | | | | | | | Weighing, Parts Counting, Percent Weighing, Check Weighing, Animal Weighing, Formulation, Density Determination, Totalization, Display Hold | | |
| Pan Size | Ø 90 mm | | | Ø 130 mm | | | 175 × 195 mm | | | 175 × 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 | 109 mm / 4.3 in (diagonal) | | | | | | | | | | | | | | |
| Base Housing (WxHxD) | 354 × 340 × 230 mm | | | | | | 354 × 100 × 230 mm | | | | | | 354 × 100 × 230 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 | | | | | | 557 × 392 × 301 mm | | |
| Net Weight | 5.1 kg | | | 5.8 kg | | | 4.6 kg | | | 4.6 kg | | | 3.8 kg | | |
| Shipping Weight | 7.8 kg | | | 8.5 kg | | | 6.5 kg | | | 6.5 kg | | | 5.7 kg | | |

*Approved models only

**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)

Compliance

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

| | |
|---------------------------------------|----------|
| ION-100A EU Standalone Ionizer | 30064202 |
| SF40A Impact Printer | 30064202 |
| Auxiliary Display PAD7 | 80251396 |
| Density Determination Kit | 80253384 |
| Sinker Glass for Density Kit | 83034024 |
| Cable, USB Interface (Type A to B) | 83021085 |
| Security Device (Laptop Lock) | 80850043 |
| RS232 Cable, PC 9 Pin | 00410024 |
| In use cover for 0.1mg and 1mg model | 30111792 |
| In use cover for 0.01g and 0.1g model | 30111777 |

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