Intuitive Balances Designed for Routine Weighing

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, three level user management to fulfill 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™ *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 productivityin 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.

Batch Printing
Combine multiple samples into one printout rather than printing them one at a time.

ADVENTURER™ *Analytical and Precision Balances*

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

Label Printing Function

- Easy to link with Zebra printer and have one built-in label printing template

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 standard

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

Power Saving Functions

- The Adventurer features power saving functions that make it environmentally friendly. The auto-off and other brightness setup will save electricity when the balance is not in use.

User Management Function ensures data security and data traceability

- 3 level user management function ensures data security and data traceability requirements

- One administrator, two supervisors and 10 users have preset accessibility in the software

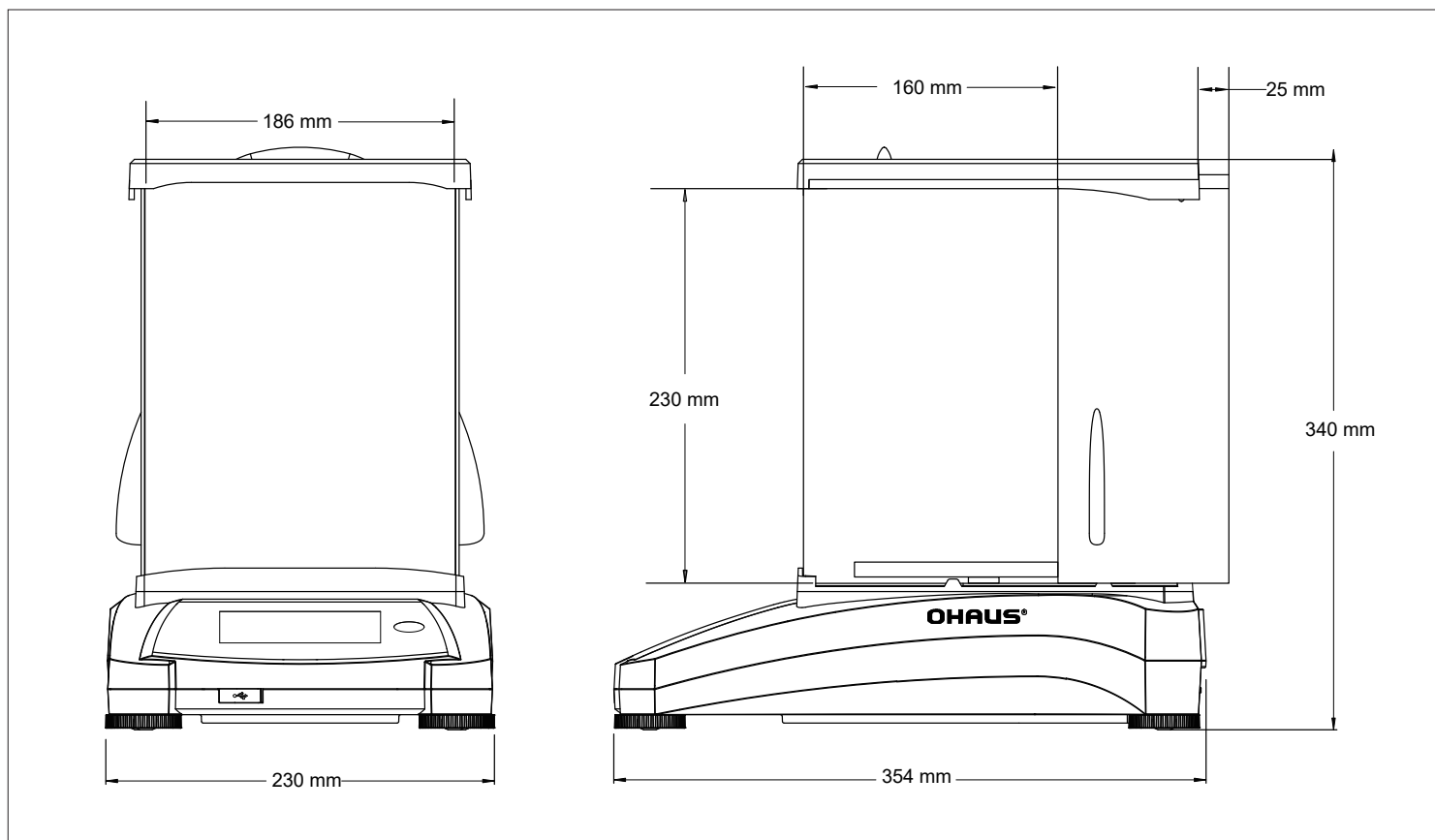## Real Time Clock with GLP/GMP Data

- A real-time clock function keeps accurate time even during power loss

- GLP data capability has the ability to record Sample name, Project names and Balance IDs to help meet traceability and compliance requirements
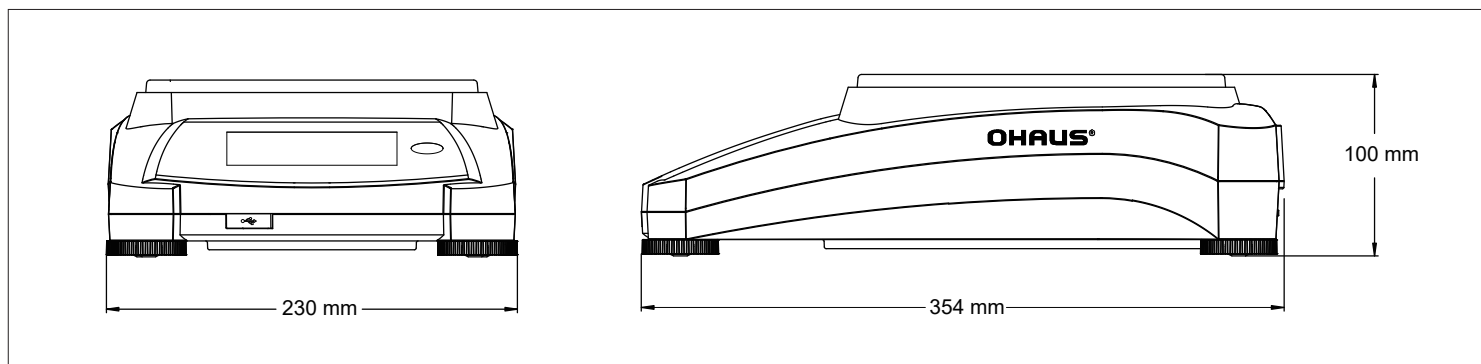
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Outline Dimensions

0.1 and 1mg Models

186 mm · 230 mm · 160 mm · 25 mm · 230 mm · 340 mm · 354 mm

0.01 and 0.1g Models

230 mm · 100 mm · 354 mm

Accessories

ION-100A EU Standalone Ionizer 30095929
SF40A Impact Printer 30064202
Auxiliary Display, AD7-RS 30472064
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

ADVENTURER™ *Analytical and Precision Balances*

Specifications

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		
Verification Interval* e (g)	0.001			0.01			—	—	0.1				—		1
Class*	I			II			—	—	II				—		II
Repeatability (sd.), ≤5% of Full Load (g)	0.00008			0.0008			0.008						0.08		
Repeatability (sd.), 5% of Full Load to Full Range (g)	0.0001			0.001			0.01						0.1		
Linearity Deviation, Typical (g)	±0.00006			±0.0006			±0.006						±0.06		
Linearity Deviation (g)	±0.0002			±0.002			±0.02						±0.2		
Stabilization Time (sec)	≤3			≤2			≤1.5						≤1.5		
Sensitivity Drift (ppm/℃)	2			3			3						5		
Min-Weight (Typical) (g) (USP, K=2, U=0.10%)	0.16			1.6			16						160		
Min-Weight (Optimal) (g) (USP, K=2, U=0.10%, SRP≤0.41d)**	0.082g			0.82g			8.2g						82 g		
Weighing Units	gram, milligram, kilogram, mesgal, momme, Newton, ounce, pennyweight, Baht, carat, grain, 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, Batch Printing														
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 (diagonal)														
Base Housing (W×H×D)	354 × 340 × 230 mm						354 × 100 × 230 mm						354 × 100 × 230 mm		
Communication	RS232, USB Device, USB Host														
Temperature Range	10℃ to 30℃														
Humidity Range	Maximum relative humidity 80 % for temperatures up to 30℃														
Storage Conditions	-10℃ to 60℃ 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, integrated 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, auto-standby, auto-off, touchscreen calibration, auto tare, user selectable operating language (14), compatible interface command with MT-SICS and ST protocol.

Compliance

Metrology: OIML R76, EN 45501 (Class I, nmax 320000; Class II, nmax 62000)

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

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

Compliance Marks: CE; CSA; UKCA

OHAUS®