

ADVENTURER[™]

By Model

Semi-Micro, Analytical, and Precision Balances



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™ Semi-Micro, 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 preestablished 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.



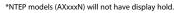
Totalization / Statistics

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.

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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 port 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 available with 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 is designed with various power-saving features that help reduce the environmental impact. These include auto-off and brightness controls.

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









ADVENTURER™ Semi-Micro, Analytical, and Precision Balances Specifications

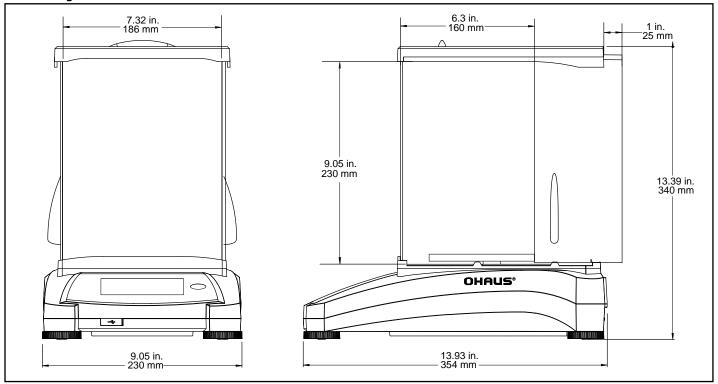
Model	AX125D	AX85	AX225D	AX124	AX224	AX324	AX223	AX423	AX523	AX623		
External Calibration	_	_	_	AX124/E	AX224/E	_	AX223/E	AX423/E	AX523/E	AX623/E		
Approved Models	_	_	_	_	AX224N	_	AX223N/E	AX423N AX423N/E	AX523N/E	AX623N/E		
Capacity (g)	82/120	82	102/220	120	220	320	220	420	520	620		
Readability d (g)	0.00001/ 0.0001	0.00001	0.00001/0.0001		0.0001			0.0	001			
Verification Interval* e (g)		_		_	0.001	_	0.01					
Class*		-	_		I	_	II					
"Repeatability (sd.), ≤5% of Full Load (g)"	0.00001			0.0008								
Repeatability (sd.), 5% of Full Load to Fine Range Max (g)	0.00002			_								
Repeatability (sd.), 5% of Full Load to Full Range (g)	0.0001	0.00002	0.0001		0.0001			0.001				
Linearity Deviation, Typical (g)	±0.00006	±0.00006	±0.00006		±0.00006		±0.0006					
Linearity Deviation (g)	±0.0001	±0.0001	±0.0001		±0.0002		±0.002					
Stabilization Time (sec)	8s ≤3						≤2					
Sensitivity Drift (ppm/°C)			2	2			3					
Min-Weight (Typical) (g) (USP, K=2, U=0.10%)		20 mg			0.16 g		1.6 g					
"Min-Weight (Optimal) (g) (USP, K=2, U=0.10%, SRP≤0.41d)**"	8.2 mg			0.082 g			0.82 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	— ct, grain, g, mg, oz, ozt, dwt											
Weighing Applications	Weighing, Parts Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Formulation, Density Determination, Totalization, Display Hold, Batch Printing											
Pan Size	Ø 3.1 in / 80 mm Ø 3.5 in / 90 mm Ø 5.1 in / 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	4.3 in / 109 mm (diagonal)											
Base Housing (W×H×D)	13.93 x 13.39 x 9.05 in / 354 × 340 × 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	$14^{\circ}\text{F}/-10^{\circ}\text{C}$ to $140^{\circ}\text{F}/60^{\circ}\text{C}$ at 10% to 90% relative humidity, non-condensing											
Shipping Dimensions	20.0 × 15.4 × 20.9 in / 507 × 387 × 531 mm											
Net Weight	<u> </u>						12.8 lb	lb / 5.8 kg				
Shipping Weight	17.2 lb / 7.8 kg 18.8 lb / 8.5 kg											

Model	_	AX622	_	AX1502	AX2202	AX4202	AX5202	AX6202	_	AX4201	AX8201	AX12001
External Calibration	AX422/E	_	AX822/E	AX1502/E	AX2202/E	AX4202/E	_	AX6202/E	AX2201/E	AX4201/E	AX8201/E	AX12001/E
Approved Models	-	AX622N/E	-	AX1502N/E	AX2202N/E	AX4202N/E	-	AX6202N/E	_	_	AX8201N/E	AX12001N/E
Capacity (g)	420	620	820	1,520	2,200	4,200	5,200	6,200	2,200	4,200	8,200	12,000
Readability d (g)				0.	01					0	.1	
Verification Interval* e (g)		0.1 — 1								1		
Class*		11 - 11 - 11								II		
"Repeatability (sd.), ≤5% of Full Load (g)"		0.008										
Repeatability (sd.), 5% of Full Load to Fine Range Max (g)	_											
Repeatability (sd.), 5% of Full Load to Full Range (g)	0.01											
Linearity Deviation, Typical (g)	±0.006 ±0.06											
Linearity Deviation (g)	±0.02 ±0.2											
Stabilization Time (sec)	≤1.5											
Sensitivity Drift (ppm/°C)	3 5											
Min-Weight (Typical) (g) (USP, K=2, U=0.10%)	16 160											
"Min-Weight (Optimal) (g) (USP, K=2, U=0.10%, SRP≤0.41d)**"	8.2 g 82 g											
Weighing Units	gram, kilogr	gram, 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	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, Batch Printing											
Pan Size	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 × 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	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											
Shipping Weight			17.2 lb	/ 7.8 kg				18.8 lb	/ 8.5 kg			

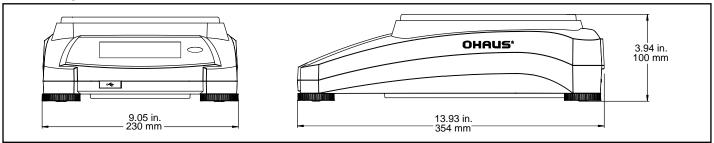
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Outline Dimensions

0.1 and 1mg Models



0.01 and 0.1g Models



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: NIST Handbook 44, Measurement Canada Weights and Measures Regulations (Class I, nmax 220000; Class II, nmax 62000)

Product Safety: CAN/CSA C22.2 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 Basic requirements)

Accessories

ION-100A US Standalone Ionizer	30130302
STP103 Printer	80251992
SF40A Impact Printer	30064203
Auxiliary Display	30472064
Density Determination Kit	80253384
Cable, USB Interface (Type A to B)	83021085
Security Device (Laptop Lock)	80850043
RS232 Cable, PC 9 Pin	80500525

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The management system governing the manufacture of this product is ISO 9001:2015 certified.

