



Ohaus AX523-E Adventurer AX Analytical Balance (30100610) with External Calibration 520 x 0.001 g

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.



**Capacity x
Readability**
520 g x 1 mg
Pan Size
5.1 in

Manufacture: Ohaus
SKU: AX523-E
UPC:
B01BTXV8HU
Weight: 20.00 lb
Free Ground Shipping
within the 48
continental US States

Please Call
(800)832-0055

Features

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 you can count on extremely quickly.
- **Color Touchscreen & Connectivity Options Power a Modern Weighing Experience** — The wide viewing angle color touchscreen provides quick access to all of Adventurer's applications,

while dual USB ports with GLP/GMP tracking capabilities 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.

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™ — Select 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.
- **Dynamic Weighing** - Weigh an unstable load. Scale takes an average of weights over a period of time
- **Display Hold** - Manually holds the last stable weight or highest weighing value on the display.
- **Parts Counting** - Count samples of uniform weight.
- **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.
- **Totalization** - Measure cumulative weight of multiple items. Cumulative total may exceed balance capacity.
- **Percent Weighing** - Measure the weight of a sample displayed as a percentage of a preestablished Reference Weight.
- **Check Weighing** - Compare the weight of a sample against target limits.
- **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

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

Specifications

Standard Models with Internal Calibration	AX124 30100600	AX224 30100602	AX324 30100604	AX223 30100605	AX423 30100607	AX523 30100609	AX623 30805882
Capacity x Readability (g)	120 x 0.0001	220 x 0.0001	320 x 0.0001	220 x 0.001	420 x 0.001	520 x 0.001	620 x 0.001
Repeatability std (g)	±0.0001			±0.001			
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)						
Models with External Calibration	AX124/E 30100601	AX224/E 30100603	-	AX223/E 30100606	AX423/E 30100608	AX523/E 30100610	AX623/E 30805883
Capacity x Readability (g)	120 x 0.0001	220 x 0.0001	320 x 0.0001	220 x 0.001	420 x 0.001	520 x 0.001	620 x 0.001
Repeatability std (g)	±0.0001			±0.001			
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)						
Legal For Trade with Internal Calibration	-	AX224N 30100630	-	-	AX423N 30100632	-	-
Legal For Trade Models with External Calibration	-	-	-	AX223N/E 30100631	AX423N/E 30100633	AX523N/E 30100634	AX623N/E 30805899

All Scales

Legal For Trade Capacity x Readability (g)	-	220 x 0.001	-	220 x 0.01	420 x 0.01	520 x 0.01	620 x 0.01
Class	-	I	-	II			
Legal For Trade Weighing Units	-	lct, grain, g, mg, oz, ozt, dwt	-	ct, grain, g, mg, oz, ozt, dwt, kg			
Legal For Trade Approvals	-	NIST , Measurement Canada	-	NIST , Measurement Canada			
Typical Operating Range (g) (u=0.10%, k=2)	0.20g - 120g	0.20g - 220g	0.20g - 320g	2.0g - 220g	2.0g - 420g	2.0g - 520g	2.0g - 620g
Optimal Operating Range (g) (u=0.10%, k=2)	0.082g - 120g	0.082g - 220g	0.082g - 320g	0.82g - 220g	0.82g - 420g	0.82g - 520g	0.82g - 620g
Sensitivity Drift (ppm/°C)	1.5			3			
Linearity (g)	±0.0002			±0.002			
Stabilization Time (sec)	≤3			≤2			
Pan Size	Ø 3.5 in / 90 mm			Ø 5.1 in / 130 mm			
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 (WxHxD)	13.93 x 13.39 x 9.05 in / 354 x 340 x 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 x 15.4 x 20.9 in / 507 x 387 x 531 mm						

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