



# Adventurer™ Balances User Guide



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# 1. SAFETY INFORMATION

This manual contains installation, operation and maintenance instructions for the Adventurer balance. Please read this manual completely before installation and operation.

## Definition of Signal Warnings and Symbols

- WARNING** For a hazardous situation with medium risk, possibly resulting in injuries or death if not avoided.
- CAUTION** For a hazardous situation with low risk, resulting in damage to the device or the property or in loss of data, or injuries if not avoided.
- Attention** For important information about the product.
- Note** For useful information about the product.

## Warning Symbols



General hazard



Electrical shock

## Safety Precautions



**CAUTION:** Read all safety warnings before installing, making connections, or servicing this equipment. Failure to comply with these warnings could result in personal injury and/or property damage. Retain all instructions for future reference.

- Verify that the local AC power supply voltage is within the input voltage range printed on the AC adapter's ratings label.
- Only connect the AC adapter to a compatible grounded socket.
- Position the instrument such that the AC adapter can be easily disconnected from the socket.
- Position the power cord so that it does not pose a potential obstacle or tripping hazard.
- Operate the equipment only under ambient conditions specified in the user instructions.
- Do not operate the equipment in hazardous or explosive environments.
- Disconnect the equipment from mains power before cleaning or servicing.
- Service should only be performed by authorized personnel.

## Intended Use

Use the instrument exclusively for <weighing/moisture determination/etc.> as described in the operating instructions. Any other type of use and operation beyond the limits of technical specifications without written consent from OHAUS, is considered as not intended.

This instrument complies with current industry standards and the recognized safety regulations; however, it can constitute a hazard in use.

If the instrument is not used according to these operating instructions, the intended protection of the instrument may be compromised and OHAUS assumes no liability.

# 2. INSTALLATION

## 2.1 Selecting the location

The location must be sturdy, flat and level. Avoid locations with excessive air current, vibrations, heat sources or rapid temperature changes. Allow sufficient space around the instrument.



## 2.2 Connecting Power

Connect the AC adapter power cord to the instrument's power input connector, and then connect the AC plug to a suitable electrical outlet.



**Attention:** Only use an AC adapter specified by OHAUS.



**Attention:** For optimal weighing performance, allow the balance to warm up for 60 minutes prior to use.

### 2.3 Connecting the Interface

Use the built-in RS-232 Port to connect either to a computer or a printer with a standard (straight-through) serial cable. Or connect using the scale's USB port.

Interface connections on the rear of the balance:



USB1                      RS232

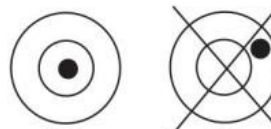
- USB1:                      Used to connect to PC only
- USB2:                      Used to connect a USB flash driver only
- RS232:                      Used to connect to PC or Printer

USB connection on the front of the balance:



### 2.4 Leveling the Equipment

To level the instrument, adjust the feet/leveling wheel so the bubble is centered in the circle of the level indicator. Be sure the equipment is level each time its location is changed.



### 2.5 Initial Calibration

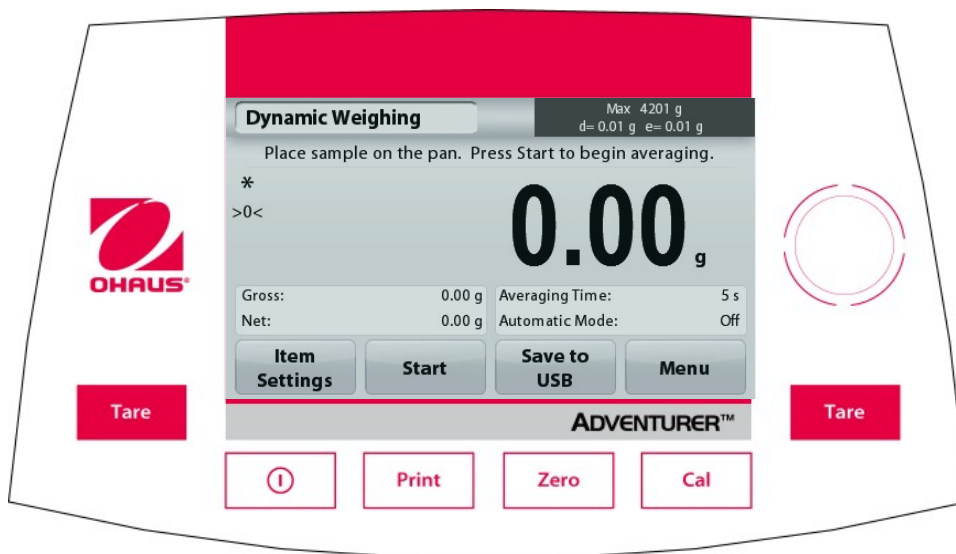
For best results, the instrument's calibration should be checked prior to first use. If adjustment is needed, refer to the Calibration section of the instruction manual.

### 3. OPERATION

#### 3.1 Overview of Display, Home Screen

This equipment utilizes a touch-sensitive display. *Touch* areas and Buttons to control the equipment's functions.

#### CONTROLS



Button	Action
	Short Press (if powered Off): Turns on the scale Long Press (if powered On): Turns off the scale <b>Note:</b> The balance will automatically power on when power is connected.
	Short Press: Prints the present data to a printer or a computer.
	Short Press: Perform Zero operation
	Short Press: Perform Calibration operation
	Short Press: Perform Tare operation

#### Main Application Screen Application

Instructional Messages  
Stability (\*), Net (NET), Gross (G) and/or center of zero (>0<) indicators

#### Reference Fields



Result Field: Information varies by application  
Touch g to change unit

Application Buttons:  
Functions vary by application

**MENU & SCREEN NAVIGATION**

Touch **Menu** to open the menu list.



**Calibration:**  
Touch to view calibration options.



**Balance Setup:**  
Touch to view and change balance settings.



**Weighing Units:**  
Touch to view and change weighing units.



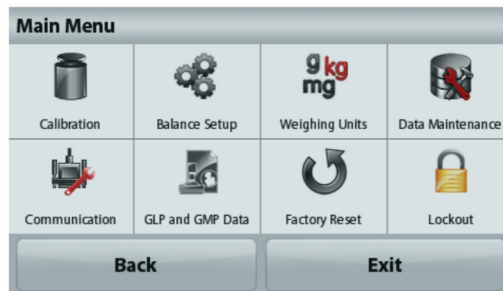
**Data Maintenance:**  
Touch to view data maintenance settings.



**Communication:**  
Touch to view COM Device Settings and Print Settings.



**GLP and GMP Data:**  
Insert user data for traceability.



**Factory Reset:**  
Touch to do a Factory reset of menu settings.



**Lockout:**  
Touch to view lockout options.

**3.2 Using the Balance**

Note: Before using any application, be sure the balance has been leveled and calibrated.

**Weighing Application**

1. If required, place an empty container on the pan and press **Tare**.
2. Add sample to the pan or container. The display shows the weight of the sample.

**4. MAINTENANCE**

**4.1 Cleaning**



**WARNING:** Electric Shock Hazard. Disconnect the equipment from the power supply before cleaning. Make sure that no liquid enters the interior of the instrument.



**Attention:** Do not use solvents, harsh chemicals, ammonia or abrasive cleaning agents.

The exterior surfaces of the instrument may be cleaned with a cloth dampened with water and a mild detergent.

**4.2 Troubleshooting**

For technical issues contact an Authorized Ohaus Service Agent. Please visit our website [www.ohaus.com](http://www.ohaus.com) to locate the Ohaus office nearest you.

**5. TECHNICAL DATA**

The technical data is valid under the following conditions:

- Indoor use only
- Altitude: Up to 2000 m
- Specified Temperature range: 10°C to 30°C
- Humidity: maximum relative humidity 80 % for temperatures up to 30°C
- decreasing linearly to 50% relative humidity at 40°C
- Mains supply voltage fluctuations: up to ±10% of the nominal voltage
- Installation category II
- Pollution degree: 2

Model:	AX124	AX124/E	AX224	AX224/E	AX324
Capacity	120g	120g	220g	220g	320g
Readability d	0.0001g				
Repeatability (std. dev.) (g)	0.0001g				
Linearity (g)	±0.0002g				
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A				

Model:	AX223	AX223/E	AX423	AX423/E	AX523	AX523/E
Capacity	220 g	220 g	420 g	420 g	520 g	520 g
Readability d	0.001 g					
Repeatability (std. dev.) (g)	0.001 g					
Linearity (g)	±0.002 g					
Power supply	AC Adapter Input: 100-240 VAC 0.3 A 50-60 Hz AC Adapter Output: 12 VDC 0.84 A					

Model:	AX622	AX622/E	AX1502	AX1502/E	AX2202
Capacity	620g	620g	1520g	1520g	2200g
Readability d	0.01g				
Repeatability (std.dev.) (g)	0.01g				
Linearity (g)	±0.02g				
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A				

Model:	AX2202/E	AX4202	AX4202/E	AX5202
Capacity	2200g	4200g	4200g	5200g
Readability d	0.01g			
Repeatability (std.dev.) (g)	0.01g			
Linearity (g)	±0.02g			
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A			

Model:	AX4201	AX4201/E	AX8201	AX8201/E
Capacity	4200g	4200g	8200g	8200g
Readability d	0.1g			
Repeatability (std. dev.) (g)	0.1g			
Linearity (g)	±0.2g			
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A			

MODEL	AX124M	AX224M	AX324M	AX223M	AX423M	AX523M
Max	120g	220g	320g	220g	420g	520g
Min	0.01g	0.01g	0.01g	0.02g	0.02g	0.02g
d=	0.0001g			0.001g		
e=	0.001g			0.01g		
Repeatability (std. dev.) (g)	0.0001g			0.001g		
Linearity (g)	±0.0002g			±0.002g		
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A					

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MODEL	AX1502M	AX2202M	AX4202M	AX5202M	AX8201M
Max	1520g	2200g	4200g	5200g	8200g
Min	0.5g	0.5g	0.5g	0.5g	5g
d=	0.01g				0.1g
e=	0.1g				1g
Repeatability (std. dev.) (g)	0.01g				0.1g
Linearity (g)	±0.02g				±0.2g
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A				

Model	AX224N	AX223N/E	AX423N	AX 423N/E	AX523N/E
Max	220g	220g	420g	420g	520g
Min	0.01g	0.02g	0.02g	0.02g	0.02g
d=	0.0001g	0.001g			
e=	0.001g	0.01g			
Repeatability (std. dev.) (g)	0.0001g	0.001g			
Linearity (g)	±0.0002g	±0.002g			
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A				

Model	AX622N/E	AX1502N/E	AX2202N/E	AX4202N/E	AX8201N/E
Max	620g	1520g	2200g	4200g	8200g
Min	0.5g	0.5g	0.5g	0.5g	5g
d=	0.01g				0.1g
e=	0.1g				1g
Repeatability (std. dev.) (g)	0.01g				0.1g
Linearity (g)	±0.02g				±0.2g
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A				




MODEL	AX124AU	AX224AU	AX324AU	AX223AU	AX423AU	AX523AU
Max	120g	220g	320g	220g	420g	520g
Min	0.01g	0.01g	0.01g	0.02g	0.02g	0.02g
d=	0.0001g			0.001g		
e=	0.001g			0.01g		
Repeatability (std. dev.) (g)	0.0001g			0.001g		
Linearity (g)	±0.0002g			±0.002g		
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A					

MODEL	AX1502AU	AX2202AU	AX4202AU	AX5202AU	AX8201AU
Max	1520g	2200g	4200g	5200g	8200g
Min	0.5g	0.5g	0.5g	0.5g	5g
d=	0.01g				0.1g
e=	0.1g				1g
Repeatability (std. dev.) (g)	0.01g				0.1g
Linearity (g)	±0.02g				±0.2g
Power supply	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A				



## 6. COMPLIANCE

Compliance to the following standards is indicated by the corresponding mark on the product.

Mark	Standard
	This product complies with the EU Directives 2014/30/EU (EMC), 2014/35/EU (LVD) and 2014/31/EU (NAWI). The EU Declaration of Conformity is available online at <a href="http://www.ohaus.com/ce">www.ohaus.com/ce</a> .
	This product complies with the EU Directive 2002/96/EC (WEEE). Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment. For disposal instructions in Europe, refer to <a href="http://www.ohaus.com/weee">www.ohaus.com/weee</a> .
	AS/NZS 61000.6.1, AS/NZS 61000.6.3

### Verified weighing instruments

When the instrument is used in trade or a legally controlled application it must be set up, verified and sealed in accordance with local weights and measures regulations. It is the responsibility of the purchaser to ensure that all pertinent legal requirements are met.

Weighing Instruments verified at the place of manufacture bear the following supplementary metrology marking on the descriptive plate.



Weighing Instruments to be verified in two stages have no supplementary metrology marking on the descriptive plate. The second stage of conformity assessment must be carried out by the applicable weights and measures authorities.

If national regulations limit the validity period of the verification, the user of the weighing instrument must strictly observe the re-verification period and inform the weights and measures authorities

As verification requirements vary by jurisdiction, the purchaser should contact their local weights and measures office if they are not familiar with the requirements.

# 1. INFORMACIÓN SOBRE SEGURIDAD

Este manual contiene instrucciones relativas a la instalación, operación y mantenimiento de la balanza Aventurer. Por favor, lea el manual entero antes de proceder a la instalación y operación del equipo.

## Definición de las señales de advertencia

**ADVERTENCIA** A situaciones peligrosas de mediano riesgo, que podrían ocasionar serias lesiones, o incluso hasta la muerte.

**PRECAUCIÓN** A situaciones peligrosas de bajo riesgo que podrían ocasionar lesiones o daños materiales, así como a la pérdida de información del dispositivo.

**ATENCIÓN** A la Información importante sobre el producto.

**NOTA** Para obtener útil información sobre el producto.

## Señales de Advertencia



Peligro



Descarga eléctrica

## Medidas de Seguridad



**ADVERTENCIA:** Lea todas las instrucciones de seguridad antes de instalar, hacer conexiones, o dar servicio a este equipo. El incumplimiento de estas advertencias puede causar lesiones personales y/o daños materiales. Conserve las instrucciones para futuras consultas.

- Verifique que el voltaje local de su fuente de alimentación está dentro del rango de voltaje impreso en la etiqueta del adaptador de CA del equipo.
- Conecte el adaptador de CA a una toma de tierra compatible.
- Coloque el equipo de forma que el adaptador de CA pueda ser fácilmente desconectado de la toma de corriente.
- Coloque el cable de alimentación de manera que no represente un obstáculo con peligro de tropezar.
- Utilice el equipo únicamente bajo las condiciones ambientales especificadas en las instrucciones de uso.
- No utilizar el equipo en entornos peligrosos o explosivos.
- Desconecte el equipo de la red eléctrica antes de la limpieza o el mantenimiento.
- El servicio debe ser realizado por personal autorizado.

## Uso Apropiado

Utilice el equipo exclusivamente para los fines de <pesaje/determinación de humedad/etc.> descritos en el manual. Cualquier otro tipo de uso y/o funcionamiento, que exceda los límites de las especificaciones técnicas sin el consentimiento por escrito de OHAUS, se considera como Uso Inapropiado.

Este equipo cumple con los estándares de la industria y las normas actuales de seguridad reconocidas; sin embargo, puede constituir un peligro en su uso.

Si el equipo no se utiliza de acuerdo al manual de instrucciones, su seguridad puede verse afectada, por lo que OHAUS no asume ninguna responsabilidad.

# 2. INSTALACIÓN

## 2.1 Elección de la ubicación

El lugar debe ser firme, plano y debe estar nivelado. Evite vibraciones excesivas, fuentes de calor, corrientes de aire o cambios bruscos de temperatura. Deje suficiente espacio libre alrededor del aparato.



## 2.2 Conexión a la red eléctrica

Conecte el cable de alimentación de corriente alterna al conector de entrada de alimentación del equipo, y luego conecte el enchufe de CA a una toma eléctrica adecuada.



**Atención:** Utilice sólo un adaptador de CA especificado por OHAUS.



**Atención:** Permita que el equipo se caliente durante 60 minutos para obtener un rendimiento de pesaje óptimo.