



**Valor™ 1000W Series  
Instruction Manual**

**Serie Valor™ 1000W  
Manual de Instrucciones**

**Série Valor™ 1000W  
Guide de l'utilisateur**

**Serie Valor™ 1000W  
Bedienungsanleitung**

**Serie Valor™ 1000W  
Manuale d'istruzioni**





# 1. INTRODUCTION

This manual contains installation, operation and maintenance instructions for the Ohaus Valor™ 1000W Series Scales. Please read the manual completely before using the scale.

## 1.1 Safety Precautions

Please follow these safety precautions:

- Verify AC Adapter input voltage matches the local AC power supply.
- Do not immerse the scale in water or other liquids.
- Do not operate the scale in hostile environments.
- Do not drop loads on the platform.
- Do not place the scale upside down on the pan.
- Service should only be performed by authorized personnel
- Disconnect the scale from the power supply when cleaning

## 1.2 Controls

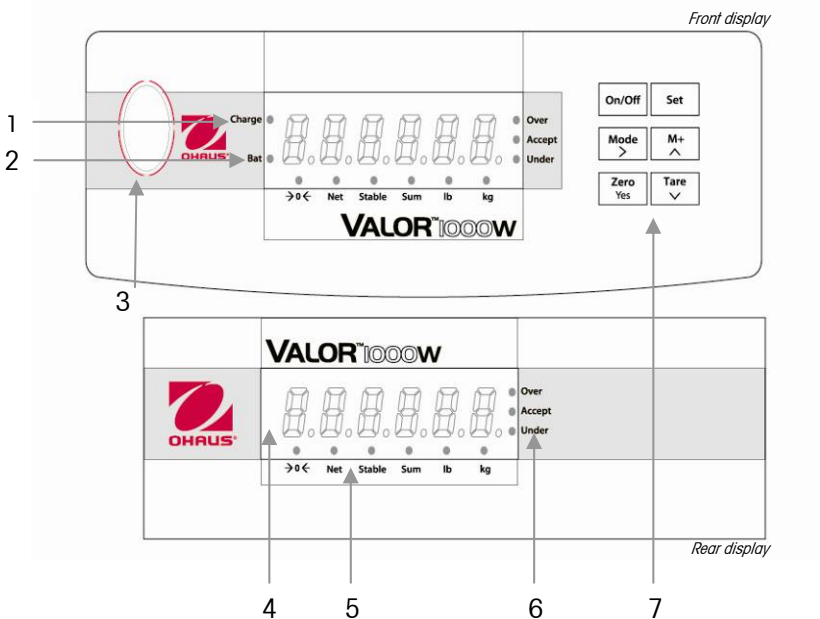


Figure 1-1. Controls.

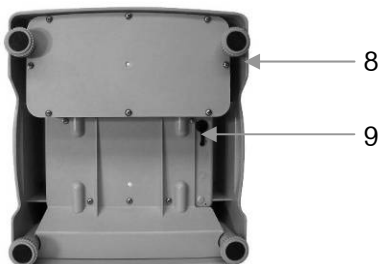


Figure 1-1. Controls (cont').

TABLE 1-1. CONTROLS

Item	Description
1	Battery charge indicator
2	Low battery indicator
3	Level Bubble
4	7-segment, 6-digit LED display
5	Center of Zero, Net, Stable, Sum, lb, kg indicators
6	Over, Accept, Under Checkweigh indicators
7	Control Buttons
8	Adjustable feet
9	Power input jack

TABLE 1-2. CONTROL FUNCTIONS.

Button	Action	Function
On/Off	Short Press	Turns scale on
	Long Press	Turns scale off
Mode >	Menu function	Shift to next digit when setting parameters, or step through menu settings
Zero Yes	Primary function	Sets display to zero
	Menu function	Confirm settings
Set	Long Press	Enters menu mode
	Menu function	Save settings and exit the menu
M+ ^	Primary function	Stores displayed weight in accumulation memory Display accumulation data when display is at zero
	Menu function	Increment displayed value, or toggle through menu settings
Tare v	Primary function	Tares weight of item on pan
	Menu function	Decrement displayed value, or toggle through menu settings

## 2. INSTALLATION

### 2.1 Package Contents

- Valor™ 1000W Scale
- Stainless steel Pan
- AC Power Adapter
- Instruction Manual
- Warranty Card

### 2.2 Location

Use the scale on a firm, steady surface. Avoid locations with excessive air current, vibrations, heat sources, or rapid temperature changes. Adjust the leveling feet so the bubble is centered in the circle.

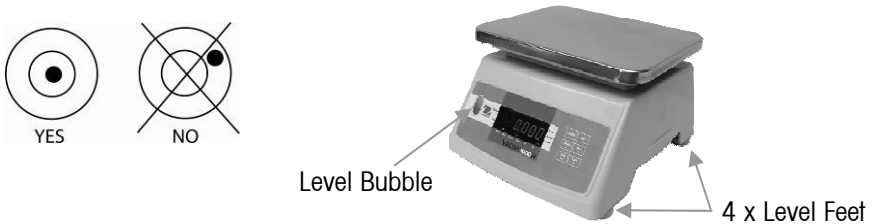


Figure 2-1. Leveling the Scale.

### 2.3 Power

Connect the AC Adaptor to the AC mains supply. Connect the plug to the DC jack on the bottom of the scale (see Figure 1-1, item 9). The scale may be operated on the AC mains supply or the built-in rechargeable battery.

#### 2.3.1 Battery Power

The scale will automatically switch to battery operation if there is a power failure or the power cord is removed. With AC power, the scale is constantly charging, so the battery charge indicator (see Figure 1-1, item 1) will remain lit. The scale can be operated during charging, and the battery is protected against over charging.



Before using the scale for the first time, the battery should be fully charged for up to 12 hours.

**CAUTION:** Battery is to be replaced only by an authorized Ohaus service dealer. Risk of explosion can occur if replaced with the wrong type or connected improperly. Dispose of the lead acid battery according to local laws and regulations.

**Note:**

- Charging the scale must be performed in a dry environment.
- After charging, re-install the rubber seal to the power input jack (Figure 1-1, item 9) to ensure the scale is protected when operating in a wet environment.

## 3. OPERATION

### 3.1 Turning Scale On/Off

To turn the scale on, short press the **On/Off** button. The scale momentarily displays software version, performs a display test then enters the active weighing mode.

To turn the scale off, long press the **On/Off** button.

### 3.2 Zero Operation

Zero is set under the following conditions (see Section 4.2 to select Initial Zero and Key Zero ranges):

- Automatically at Power On (initial zero)
- Manually by pressing the **ZERO** button

Press **ZERO** to zero the stable weight display.

### 3.3 Manual Tare

Place a container on the weighing pan, then press **TARE**. The display will show a net value of "0". To clear the Tare value, press **TARE** with the pan empty.

### 3.4 Weighing Mode

Use this mode to measure the weight of a sample in the selected unit of measure (see Section 4.2 to select unit). Press **ZERO** to set the display to zero. Put an empty container on the pan as needed, then press **TARE** to tare the container weight. Add material to the container. The display shows the weight of the material in the selected unit of measure.

### 3.5 Sleep Mode

Whether on AC power or batteries, with the pan empty and the scale stable and inactive for 1 minute, the display digits will turn off and show only a blinking decimal.

### 3.6 Accumulate Mode

Use this mode to store the weight and HI, LO, SUM statistics from a series of samples.

- Press **ZERO** to set the display to zero.
- Place the item on the pan or tared container.
- Press **M+** to store the weight of the item. Storage is confirmed by the display [n----x], where x is the number of samples. The **SUM** LED will illuminate to indicate there are readings in memory.
- Remove the item, wait for stable zero reading, then place the next item on the pan. Press **M+** to store the weight of the next item. Repeat this process until all items have been weighed.

Review the accumulation data by pressing **M+** when the display is at zero.

- The display shows the number of samples [n----x]
- Press **M+** to view the maximum sample weight [Hxxxxx].
- Press **M+** to view the minimum sample weight [Lxxxxx].
- Press **M+** to view the sum of weights [xxxxx].
- Press **M+** to return to weighing.

Clear the accumulated data by pressing **ZERO** when the number of samples [n----x] is displayed.

#### Note:

- Only a total of 999 accumulated records [n 999] can be stored, and the sum of the weights cannot exceed [999999]. [n OVER] or [A OVER] will be displayed if these values are exceeded. Clear the Accumulate data to continue.
- Accumulated data is cleared when the unit of measure is changed.

### 3.7 Checkweigh Mode

Use this mode to compare samples to a target weight range (see section 4.1 to activate and set limits).

Press **ZERO** to set the display to zero. Place a sample on the pan or tared container, and read the displayed weight and under/accept/over status, where:

Under = weight is below preset minimum value

Accept = weight is equal to or within preset target range

Over = weight exceeds preset maximum value

**Note:** When the unit of measure is changed (see Section 4.2), checkweigh limits and setting (see Section 4.1) will be reset to "0".

## 4. MENU SETTINGS

Press and hold **SET** until [SET-Fx] is displayed, where x:

- 0 = Set checkweigh limits and mode
- 1 = Set user settings
- 2 = Restore user settings to factory defaults
- 3 = Set tare capacity range

### 4.1 Checkweigh Over and Under Limits

- Press and hold **SET** until [SET-F0] is displayed.
- Press **YES** to view the upper limit [000000] (or last value saved). The Over LED will illuminate.
- Press **▶**, **▼**, **▲** to edit the upper limit value (must be less than scale capacity).
- Press **YES** to confirm, then view the lower limit [000000] (or last value saved). The Under LED will illuminate.
- Press **▶**, **▼**, **▲** to edit the lower limit value (must be minimum of 20d scale divisions, and less than upper limit).
- Press **YES** to confirm, then view the alarm setting [rUn x], where x:
  - 0 = Checkweigh mode is disabled
  - 1 = Checkweigh LEDs are active, beeper will sound when result is outside the Accept range
  - 2 = Checkweigh LEDs are active, beeper will sound when result is within the Accept range
  - 3 = Checkweigh LEDs are active, beeper is disabled
- Press **▶** to step through available settings, then press **YES** to select.
- Press **SET** to save and exit.

**Note:** The measuring unit of the limit values will follow the active unit (see Section 4.2).



**4.2 User Settings**

Press and hold **SET**, then **▶** until [**SET-F1**] is displayed. Press **YES** to enter and view user settings [**F1-0 x**]:

Parameters	Description	Settings of "x"
[F1-0 x]	Key Zero Range	0 = 2% of scale capacity (default) 1 = 5% of scale capacity 2 = 10% of scale capacity 3 = 20% of scale capacity
[F1-1 x]	Auto-zero Tracking Range	0 = Off 1 = 0.5d (d = scale division) (default) 2 = 1d 3 = 2d 4 = 3d 5 = 4d 6 = 5d
[F1-2 x]	Initial Zero Range	0 = 10% of scale capacity (default) 1 = 20% of scale capacity 2 = 50% of scale capacity 3 = 100% of scale capacity
[F1-3 x]	Unit of Measure	0 = kg (default) 1 = lb
[F1-4 x]	Filter Level	0 = Low 1 = Medium (default) 2 = High 3 = maximum
[F1-5 x]	Stability Indication	0 = Fast 1 = High (default) 2 = Medium 3 = Slow
[F1-6 x]	Display Brightness	0 = Low 1 = Medium (default) 2 = High 3 = maximum
[F1-7 x]	Accumulation Zero Band ( <b>M+</b> is effective when stable weight returns to within "x")	0 = 0d (d = scale division) (default) 1 = within 1d 2 = within 2d 3 = within 5d 4 = within 10d

Press **▶** to step through available settings.

Press **YES** to confirm displayed setting and proceed to next menu item.

Press **SET** at any time to save and exit.

### 4.3 Restore Settings to Default

Press and hold **SET**, then **▶** until [**SEt-F2**] is displayed. Press **YES** to enter and view default user settings [**F1-0 x**].

Press **YES** to confirm displayed setting and proceed to next menu item.

Press **SET** to save and exit.

### 4.4 Set Tare Capacity

Press and hold **SET**, then **▶** until [**SEt-F3**] is displayed. Press **YES** to enter and view tare capacity settings [**tArE x**], where x:

0 = 2/3 of scale capacity

1 = 100% of scale capacity

Press **▼▲** to toggle through available settings, then press **SET** to save and exit.

## 5. SCALE SETUP AND SPAN CALIBRATION

For best results, calibrate the scale at regular intervals. Temperature changes, gravity variations and abuse are some reasons why a scale may need recalibration.

Enter calibration as follows:

- Turn the scale on.
- During the start-up display [**000000...999999**], press and hold **SET** until [**FS--SP**] is displayed.
- Press **YES** to display [**P x**], where x = position of decimal point
- Press **▼▲** to toggle through settings: 0, 1, 2, 3, 4
- Press **YES** to select, then display [**d x**], where x = scale divisions
- Press **▼▲** to toggle through settings: 1, 2, 5, 10, 20, 50
- Press **YES** to select, then display scale capacity [**xxxxxx**] (kg)
- Press **YES** to select, then display [**noLoAd**]
- Make sure pan is empty, then press **YES** to display [**LoAd**]
- Press **YES** to select, then display default or last used span weight [**xxxxxx**] (kg)
- Press **▶, ▼, ▲** to edit the displayed value (as needed)
- Place indicated weight on the scale, then press **YES**
- [**CALEnd**] is momentarily displayed to indicate calibration was successful, then exit to weighing mode
- To abort calibration at any point, turn the scale off.

Examples:

Parameters:	3 x 0.0005 kg	6 x 0.001 kg	15 x 0.002 kg	30 x 0.005 kg	30 x 0.01 kg
<b>P</b>	4	3	3	3	3
<b>d</b>	5	1	2	5	10
<b>Capacity</b>	3.000	6.000	15.000	30.000	30.000

## **6. MAINTENANCE**

**Caution:** before cleaning, turn the scale off and remove the AC adapter.

### **6.1 Cleaning**

The housing may be cleaned with a cloth dampened with a mild detergent. Do not use solvents, chemicals, alcohol, ammonia or abrasives.

**Note:** Install the rubber seal to the power input jack (Figure 1-1, item 9) securely to ensure the scale is protected when cleaning in a wet environment.

### **6.2 Troubleshooting**

The following table lists common problems and possible causes and remedies.

TABLE 6-1. TROUBLESHOOTING.

<b>Symptom/Display</b>	<b>Possible Cause(s)</b>	<b>Remedy</b>
Scale will not turn on	No power to scale Battery power used up  On/Off button is damaged	Verify connections and voltage Connect power and charge the battery  Have membrane switch replaced
Poor accuracy	Improper calibration Unstable environment	Perform calibration Move scale to suitable location
Unable to calibrate	Unstable environment Incorrect calibration mass	Move the scale to suitable location Use correct calibration mass
Scale flashes Bat	Battery discharged	Connect power and charge the battery
Battery fails to charge	Battery is defective	Have battery replaced
[ZEro-E]	Pan has excess load or is not installed during power on	Remove excess weight or install pan and re-zero
[-OVER-]	Total weight on pan exceeds full scale +9d	Reduce excess load from the pan
[n-OVER]	Accumulation records exceed 999 limit	Clear Accumulation data
[A-OVER]	Total Accumulation weight exceeds no. of display digits	Clear Accumulation data
[Err-01]	Invalid under and over limit settings	Re-enter under and over limits
[Ad-Lo]	Incorrect calibration setting or calibration weight	Correct the calibration setting or use correct calibration weight

## 6.3 Service Information

If the troubleshooting section does not resolve or describe your problem, contact your authorized Ohaus service agent. For service assistance or technical support in the United States call toll-free 1-800-526-0659 between 8:00 AM and 5:00 PM EST. An Ohaus product service specialist will be available to provide assistance. Outside the USA, please visit our web site ([www.ohaus.com](http://www.ohaus.com)) to locate the Ohaus office nearest you.

## 7. TECHNICAL DATA

The technical data is valid under the following ambient conditions:

Ambient temperature: -10°C to 40°C / 14°F to 104°F

Maximum Relative humidity: ≤ 90% RH, non-condensing

Height above sea level: Up to 2000m

## 7.1 Specifications

TABLE 7-1. SPECIFICATIONS.

Model	V11PW3	V11PW6	V11PW15	V11PW30
Capacity x Readability	3 x 0.0005 kg 6.6 x .001 lb	6 x 0.001 kg 13 x .002 lb	15 x 0.002 kg 33 x .005 lb	30 x 0.005 kg 66 x .01 lb
Repeatability (std. dev. ±)	1 g	2 g	5 g	10 g
Linearity (±)	1 g	2 g	5 g	10 g
Weight units	kg or lb			
Additional Functions	Checkweighing, Accumulation			
Tare Range	2/3 or full scale			
Stabilization Time	≤ 2 seconds			
Power Requirements	9VDC 500mA or 12VDC 420mA AC adapter Internal rechargeable sealed lead acid battery			
Battery Operation	30-hour typical operation with 12-hour full charge			
Calibration	Digital with external weight			
Display	Front and Rear, 6-digit 7-segment, 14.2mm/0.56"H LED digits			
Pan Size	255W x 190D mm / 10"W x 7.5"D			
Dimensions	250W x 300D x 175H mm / 9.8"W x 11.8"D x 6.9"H			
Operating Temperature Range	-10° to 40°C / 14° to 104°F ≤90% relative humidity, non-condensing			
Storage Temperature Range	-10° to 60°C / 14° to 140°F			
Net Weight	3.5 kg / 7.7lb			
Shipping Weight	4.2 kg / 9.3 lb			

## 7.2 Compliance

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



This product conforms to the EMC directive 2004/108/EC and the Low Voltage Directive 2006/95/EC. The complete declaration of Conformity is available from Ohaus Corporation.



### Disposal

In conformance with the European Directive 2002/96 EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

Thank you for your contribution to environmental protection.

### FCC Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### Industry Canada Note

This Class A digital apparatus complies with Canadian ICES-003.

**ISO 9001 Registration**

In 1994, Ohaus Corporation, USA, was awarded a certificate of registration to ISO 9001 by Bureau Veritus Quality International (BVQI), confirming that the Ohaus quality management system is compliant with the ISO 9001 standard's requirements. On May 15, 2003, Ohaus Corporation, USA, was re-registered to the ISO 9001:2000 standard.

**LIMITED WARRANTY**

Ohaus products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Ohaus will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to Ohaus.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than Ohaus. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by Ohaus Corporation. Ohaus Corporation shall not be liable for any consequential damages.

As warranty legislation differs from state to state and country to country, please contact Ohaus or your local Ohaus dealer for further details.