OHAUS

Valor ™ 1000 Series Instruction Manual

(Spanish)

(French)

(German)

(Italian)

1. INTRODUCTION

This manual contains installation, operation and maintenance instructions for the Ohaus Valor™ 1000 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
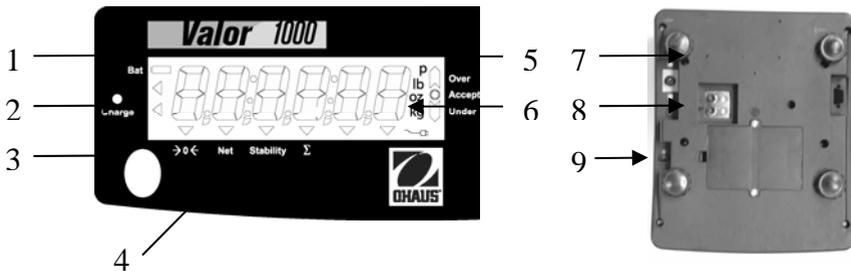
1.2. Controls

Figure 1-1. Controls.

Item	Description
1	Low battery indicator
2	Battery charge indicator
3	Level Bubble
4	Accumulate, NET, Stability Sum icons
5	Over, Under , Accept Check weigh indicators
6	7-segment, 6 digit backlit LCD w/ units of measure enunciators
7	Adjustable feet
8	Power input jack
9	On/ Off Power Switch

TABLE 1-2. CONTROL FUNCTIONS.

Button	Action	Function
ZERO *Enter*	Short Press Menu Press	Sets display to zero Confirms settings
TARE ⬇	Short Press	Tares weight of item on pan
	Menu Press	Decrement over and under settings
M+ ⬆ *Units*	Short press:	Stores displayed weight in accumulation memory Display accumulation data when display is at zero
	Menu Press Long Press	Increment over and under settings Change unit of measure while long pressing SELECT button
SELECT ⬅ *Units*	Short press:	Shift to next digit when setting over and under values
	Long Press:	Change unit of measure with short press of M+ button

2. INSTALLATION

2.1 Package Contents
- Valor 1000 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.
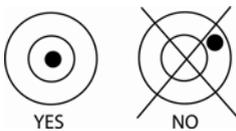

Level Bubble   ⬅ Level Feet

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. The scale may be operated on the AC mains supply or the built in rechargeable battery. The scale must be turned on to charge the battery.
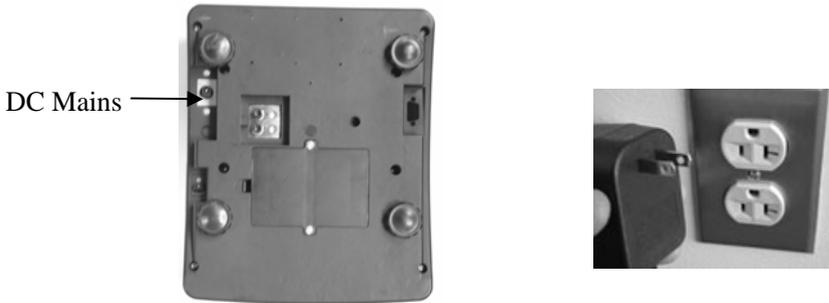
DC Mains ———

Figure 2-2. Power Connection

2.3.1 Battery Power

The scale can be operated on the internal rechargeable battery when AC power is not available. The scale will automatically switch to battery operation if there is a power failure or the power cord is removed.

Before using the scale for the first time, the battery should be fully charged for up to 12 hours. During charging, the battery Indicator displays the charge level (see table 1-1), and the scale can be operated during charging. The battery is protected against over charging and the scale can remain connected to the AC power line.

NOTE:
• Charging the scale must only be performed in a dry environment

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

2.4 Initial Calibration

When the scale is operated for the first time, a Span calibration is recommended to ensure accurate weighing results. Before performing the calibration, be sure to have the appropriate calibration weight.

Refer to section 4.3 for Span calibration procedures.

3. OPERATION

3.1 Turning Scale On/Off

To turn the scale on, flip toggle switch below right front keyboard. The scale performs a display test, momentarily displays software version, and then enters the active weighing mode. To turn the scale off, toggle same switch to off position.

3.2 Zero Operation

Zero is set under the following conditions:

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

Press the **ZERO** button to zero the weight display. The scale must be stable and weight +/- 2% of capacity to accept zero operation.

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. Press and hold **SELECT** and press M+ Unit until the desired unit icon is displayed. Press **ZERO** to set the display to zero. Put an empty container on the pan, and then press **TARE** to tare the container weight. Add material to the container. The display shows the weight of the material in selected unit of measure.

3.5 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 sample on the pan.

Press **M+** to store the weight of the sample. Storage is confirmed by the display [n----x], where x is the sample number. The enunciator above SUM text will illuminate to let user know there are readings in memory. Remove the sample, wait for stable zero reading, then place the next sample on the pan. Press **M+** to store the weight of the

next sample. Repeat this process until all samples 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 is displayed.

3.6 Check Weigh Mode
Use this mode to compare samples to a target weight range.
Press **ZERO** to set the display to zero. Place a sample on the pan and read the weight and under / accept / over status on display. *(Refer to section 4.1 to set limits)*

3.7 Changing Units of Measure
Press and hold the **M+** and **SELECT** buttons to display the next available measuring unit.

4. SETTINGS
The scale allows the user to customize several settings including check weigh limits, backlight operation and calibration.

4.1 Over and Under Limits
Press and hold **ZERO** and press **SELECT** until [SET---] is displayed.
Press **SELECT** to display [SET-F0]
Press **ZERO** to view the upper limit [000000].
Press ←, ↑, ↓ to edit the upper limit.
Press **ENTER** to confirm the setting and display the lower limit [000000].
Press ←, ↑, ↓ to edit the lower limit.
Press **ENTER** to confirm the lower setting and display will show Run---X where x is the alarm setting. In this case x=
          0 = Turns off check weigh mode
          1 = under / accept / over indicators are displayed, alarm beeps when weight is outside accept range.
          2 = under / accept / over indicators are displayed, alarm beeps when weight is within accept range.
          3 = under / accept / over indicators are displayed, alarm is off.

Press **SELECT** to change the alarm setting.
Press **ENTER** to confirm setting and display [End]
Press and hold **ZERO** key then press **SELECT** to return to weighing.

4.2 Backlight
Press and hold **ZERO** button until [b9---x] is displayed, where x=

    0 = backlight is turned off
    1 = backlight is on during weighing
    2 = backlight is always on

Press **TARE** to change the setting. Press **ZERO** to confirm the setting and return to weighing.

4.3 CALIBRATION

Span Calibration:
Turn on the scale. When display flashes all segments ("888888") press and hold **ZERO** and **SELECT** at the same time. "SET--- " will be displayed at the end of power on sequence. Press the **SELECT** key until "**SET-F1**" is shown on the display.

Press **ZERO** key to display "**A____x**"(x=divisions in grams:1,2,5,10.20.50).
Press **ZERO** key to accept the default division setting which is shown on the display.

Press **ZERO** key to display "**b____x**"(x=decimal point:0,1,2,3). Press **ZERO** key to accept the default decimal point setting which is shown on the display.

Press **ZERO key** to display "**Cxxxxx**"(xxxxx=Span weight or capacity of scale). Press **ZERO** key to accept the default span calibration weight setting which is shown on the display, or press **M+** or **TARE** to increment or decrement the span calibration weight setting.

Press **ZERO** to display "**dx**"(x=Zero tracking setting:0-9 from 0.125d to 2d). Press **ZERO** key to accept the default setting which is shown on the display, or press **M+** or **TARE** to increment or decrement setting. Default setting is 3 which = 0.5d.

Press **ZERO** and display will show "**Load 0**". Make sure pan is empty then press **ZERO** key to accept. Display will show "**CAL   0**" briefly, then "**Load F**″ will be displayed. Press **ZERO** to display "**Fxxxxx**"(xxxxx=Span weight). Put displayed weight on the scale, and press **ZERO** to accept. After completion, scale will be in weighing mode.

5. MAINTENANCE
Caution: before cleaning, turn off the scale, remove the AC adapter.

5.1 Cleaning
The housing may be cleaned with a cloth dampened with a mild detergent if necessary. Do not use solvents, chemicals, alcohol, ammonia or abrasives to clean the housing or control panels.

5.2 Troubleshooting
The following table lists common problems and possible causes and remedies. If the problem persists, contact Ohaus or your authorized dealer.

TABLE 5-1. TROUBLESHOOTING.

Symptom	Possible Cause(s)	Remedy
Scale will not turn on	No power to scale Battery power used up	Verify connections and voltage. Connect power and charge the battery
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 fully	Battery is defective	Have battery replaced by authorized service dealer
-----H	Pan has load during power on	Remove weight from pan and re-zero
-----L	Pan was removed	Install pan and re-zero.
-Over-	Weight on pan exceeds capacity	Remove weight from the pan
Err-01	Invalid under and over limit settings	Re-enter under and over limits

5.3 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 to locate the Ohaus office nearest you.

6. TECHNICAL DATA

The technical data is valid under the following ambient conditions:
Ambient temperature: 0°C to 40°C, Maximum Relative humidity: 80% for temperatures up to 31°1C, decreasing linearity to 50% relative humidity at 40°C. Height above sea level: Up to 2000m. Operability is assured at ambient temperatures between 0°C and 40°C Power: AC adapter – 9 VDC 500 mA output, Protection: Protected against dust and water, Pollution degree: 2 , Installation category: Class III, EMC: See Declaration of Conformity

6.1 Specifications

TABLE 6-1. Specifications.

Model	V11P3	V11P6	V11P15	V11P30
Capacity (kg)	3	6	15	30
Readability (g)	0.5	1	2	5
Weigh Units	Kilograms, Pounds, Grams, Ounces			
Modes	Weigh, Accumulate, Checkweigh			
Keyboard	Four Mechanical switches (Right)			
Calibration	Digital External Span Calibration			
Display Type	6-digit 7-segment LCD with blue LED backlight			
Display Indicators	Center of zero, Stability, Net, Sum, Over/Accept/Under Check, Weighing unit and Battery charge status			
Display Size	20 mm / 0.8 in digits			
Tare Range	To capacity by subtraction			
Stabilization Time	<=3 seconds			
Auto Zero Tracking	User selectable from 0.1d to 2d			
Operating Temp / Humidity	32°F to 104°F (0°C to 40°C) at 10% to 95% relative humidity Non-condensing, up to 2.5 miles / 4000m above sea level			
Power	9 VDC 500 mA AC adapter (supplied) Internal rechargeable sealed lead acid battery			
Battery Life	80/100 hours (with/without backlight on)			
Scale Dimensions (mm/in)	250w x 307d x 110h / 10w x 12d x 4.3h			
Pan Size (mm/in)	250 x 180 / 9.9 x 7.1			
Carton Dimensions (mm/in)	340w x 160d x 300h / 12.75w x 6.25d x 11.9h			
Net Weight (kg/lb)	3.2/ 7			
Shipping Weight (kg/lb)	4.0/ 8.8			

6.2 Compliance

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

Mark	Standard
CE	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
C	AS/NZS4251.1 Emission; AS/NZS4252.1 Immunity

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.

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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.

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