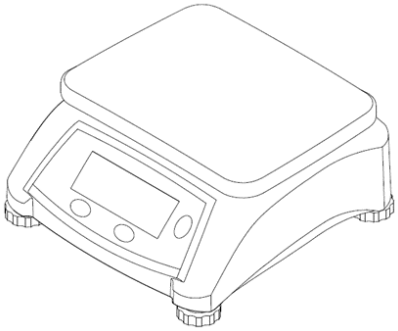
OHAUS

EN

# Valor™ 1000 Series
## Quick Start Guide



# 1. SAFTY INFORMATION

**Definition of Signal Warnings and Symbols**

Safety notes are marked with signal words and warning symbols. These show safety issues and warnings. Ignoring the safety notes may lead to personal injury, damage to the instrument, malfunctions and false results.

| | |
|---|---|
| WARNING | For a hazardous situation with medium risk, possibly resulting in severe 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 minor or medium injuries if not avoided. |
| ATTENTION | For important information about the product. May lead to equipment damage if not avoided. |
| NOTE | For useful information about the product. |

**Warning Symbols**


General hazard


Explosion hazard


Electrical shock hazard

**Safety Notes**

**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.

- Before connecting power, verify that the AC adapter's input voltage range and plug type are compatible with the local AC mains power supply.
- Do not position the equipment such that it is difficult to reach the power connection.
- Make sure that the power cord does not pose a potential obstacle or tripping hazard.
- Operate the equipment only under ambient conditions specified in these instructions.
- The equipment is for indoor use only.
- Do not operate the equipment in wet, hazardous or unstable environments.
- Do not allow liquids to enter the equipment.
- Do not load the equipment above its rated capacity.
- Do not drop loads on the platform.
- Do not place the equipment upside down on the platform.
- Use only approved accessories and peripherals.
- Disconnect the equipment from the power supply when cleaning.
- Service should only be performed by authorized personnel.

**WARNING:** Never work in an environment subject to explosion hazards! The housing of the instrument is not gas tight. (explosion hazard due to spark formation, corrosion caused by the ingress of gases).

**CAUTION:** Battery is to be replaced only by an authorized Ohaus service dealer. Risk of explosion can occur if the rechargeable battery is replaced with the wrong type or if it is not properly connected. Dispose of the rechargeable battery according to local laws and regulations.

**Intended use**

This instrument is intended for use in businesses and light industry. It shall only be used for

measuring the parameters described in these 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 provided by the instrument may be impaired

# 2. INSTALLATION

## 2.1 Selecting the location

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

## 2.2 Power

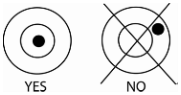
Connect the AC Adaptor to the AC mains supply. Connect the plug to the DC jack on the bottom of the scale. The scale may be operated on the AC Adapter connected to mains supply or 4 alkaline batteries.
**Note:** The AC adapter maybe optional or included with the scale, depending on the model.

## 2.3 Rechargeable Battery Power

Allow the battery to charge for 12 hours before using the scale on battery power. The instrument can be operated during charging, and the battery is protected against overcharging. For maximum operating time, the battery should be charged at room temperature.
**Note:** Availability is depending on region as accessory.
**WARNING:** Only charge the battery when the ambient temperature is between 0 and 140 °F / 0 and 40 °C.

## 2.4 Levelling the Instrument

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.
* Calibration is not permitted in some regions or when the scale is in Approved mode.

## 2.6 Unit Setting

To change the weighing unit, long press **Tare/Menu** until the display shows "CAL" or "LOCKE". Then quick press **Tare/Menu** until the display shows "UNIT". Quick press **On/Off** to enter the Unit submenu. Quick press **On/Off** again and the display will show the current unit in the upper right hand corner. Quick press **Tare/Menu** to change the unit, and then press **On/Off** to accept the unit you want. Press **Tare/Menu** until the display shows "End", then press **On/Off** to exit to weighing.

# 3. OPERATION



| Item | Description |
|---|---|
| 1 | Battery charge symbol |
| 2 | Center of Zero symbol |
| 3 | Negative symbol |
| 4 | Stable weight symbol |
| 5 | NET symbol |

| Button | Functions |
|---|---|
| On/Off Zero | Press (when off): Turns the scale on<br>Short Press (when on): Sets display to zero<br>Long Press (when on): Turns the scale off<br>Press (in Menu): Confirm（Enter） |
| Tare Menu | Short Press: Enters / clears a Tare value<br>Long Press: Enters User Menu<br>Press (in Menu): Changes menu selections (Forward) |

**Notes:**
Short Press: Press less than 3 seconds.
Long Press: Press and hold for more than 3 seconds.

## 3.1 Using the Instrument

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 housing may be cleaned with a cloth dampened with a mild detergent if necessary.

## 4.2 Troubleshooting

For technical issues contact an Authorized Ohaus Service Agent. Please visit our website www.ohaus.com to locate the Ohaus office nearest you.

# 5. TECHNICAL DATA

Equipment Ratings:
Indoor use only
Altitude: 2000m
Operating temperature: 0 to 40°C

Humidity: Maximum relative humidity 80% for temperatures up to 31 °C decreasing linearly to 50% relative humidity at 40°C.
Electrical supply: 12VDC, 0.5A. For use with certified or approved power supply, which must have a SELV and limited energy circuit output.
Voltage fluctuations: Mains supply voltage fluctuations up to ±10% of the nominal voltage.
Overvoltage category (Installation category): II
Pollution degree: 2

**Specifications**

| Model | V12P3 | V12P6 | V12P15 | V12P30 |
|---|---|---|---|---|
| Capacity × Readability (Max x d non-approved) | 6 lb x 0.001 lb<br>3 kg x 0.0005 kg<br>3,000 g x 0.5 g<br>96 oz x 0.02 oz<br>6 lb x 0.02 oz | 15 lb x 0.002 lb<br>6 kg x 0.001 kg<br>6,000 g x 1 g<br>240 oz x 0.05 oz<br>15 lb x 0.05 oz | 30 lb x 0.005 lb<br>15 kg x 0.002 kg<br>15,000 g x 2 g<br>480 oz x 0.1 oz<br>30 lb x 0.1 oz | 60 lb x 0.01 lb<br>30 kg x 0.005 kg<br>30,000 g x 5 g<br>960 oz x 0.2 oz<br>60 lb x 0.2 oz |
| Maximum Displayed Resolution | 1:6,000 | 1:6,000 | 1:7,500 | 1:6,000 |
| Repeatability | 0.001 kg | 0.002 kg | 0.005 kg | 0.01 kg |
| Linearity | ±0.001 kg | ±0.002 kg | ±0.005 kg | ±0.01 kg |
| Power Requirement | 4 x D cell Alkaline battery, AC adapter | | | |

| Model | V12P2T | V12P5T | V12P10T | V12P20T |
|---|---|---|---|---|
| Capacity × Readability (Max x d non-approved) | 5 lb x 0.0005 lb<br>2 kg x 0.0002 kg<br>2,000 g x 0.2 g<br>80 oz x 0.01 oz | 10 lb x 0.001 lb<br>5 kg x 0.0005 kg<br>5,000 g x 0.5 g<br>160 oz x 0.02 oz | 20 lb x 0.002 lb<br>10 kg x 0.001 kg<br>10,000 g x 1 g<br>320 oz x 0.05 oz | 50 lb x 0.005 lb<br>20 kg x 0.002 kg<br>20,000 g x 2 g<br>800 oz x 0.1 oz |
| Maximum Displayed Resolution | 1:10,000 | 1:10,000 | 1:10,000 | 1:10,000 |
| Certified Capacity × Readability (Max x e approved) | 5 lb x 0.002 lb<br>2 kg x 0.001 kg<br>2,000 g x 1 g<br>80 oz x 0.05 oz | 10 lb x 0.005 lb<br>5 kg x 0.002 kg<br>5,000 g x 2 g<br>160 oz x 0.1 oz | 20 lb x 0.01 lb<br>10 kg x 0.005 kg<br>10,000 g x 5 g<br>320 oz x 0.2 oz | 50 lb x 0.02 lb<br>20 kg x 0.01 kg<br>20,000 g x 10 g<br>800 oz x 0.5 oz |
| Approved Resolution | 1:2,000 | 1:2,500 | 1:2,000 | 1:2,000 |
| Repeatability | 0.001 kg | 0.002 kg | 0.005 kg | 0.01 kg |
| Linearity | ±0.001 kg | ±0.002 kg | ±0.005 kg | ±0.01 kg |
| Power Requirement | 4 x D cell Alkaline battery, AC adapter | | | |

## 6. COMPLIANCE

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

| Mark | Standard |
|---|---|
| CE | This product complies with the applicable harmonized standards of EU Directives 2011/65/EU (RoHS), 2014/30/EU (EMC), 2014/35/EU (LVD) and 2014/31/EU (NAWI). The EU Declaration of Conformity is available online at www.ohaus.com/ce. |
|  | This product complies with the EU Directive 2012/19/EU (WEEE) and 2006/66/EC (Batteries). Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.<br>For disposal instructions in Europe, refer to www.ohaus.com/weee. |
|  | EN 61326-1 |

**ISED Canada Compliance Statement:**
This Class B digital apparatus complies with Canadian ICES-003.

**ISO 9001 Registration**
The management system governing the production of this product is ISO 9001 certified.

## FCC Supplier Declaration of Conformity

Unintentional Radiator per 47CFR Part B

Trade Name: OHAUS CORPORATION
Model or Family identification: V12...

**FCC Compliance Statement:**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.