

FUNCTION SETTINGS

Enter function setting mode.

Press [ON/OFF] to turn the power off, Press [ZERO] first, then press [ON/OFF], while keeping [ZERO] pressed, the display will show A_ON or A_OFF.

1. Selection of auto backlight mode.

When the balance enter function setting menu. Press [SET] key, the display will show L_ON or L_OFF, press [ZERO], selection display L_ON, this means auto backlight function active, press [ZERO] again, the display will show L_OFF, this means auto backlight function inactive, i.e. shut off backlight function.

2. Selection of auto shut off mode.

When the balance enter function setting menu. Press [SET] key, the display will show A_ON or A_OFF, press [ZERO], selection display A_ON, this means auto shut off function active. Press [ZERO] again, the display will show A_OFF, this means auto shut off function inactive.

3. Return to weighing mode.

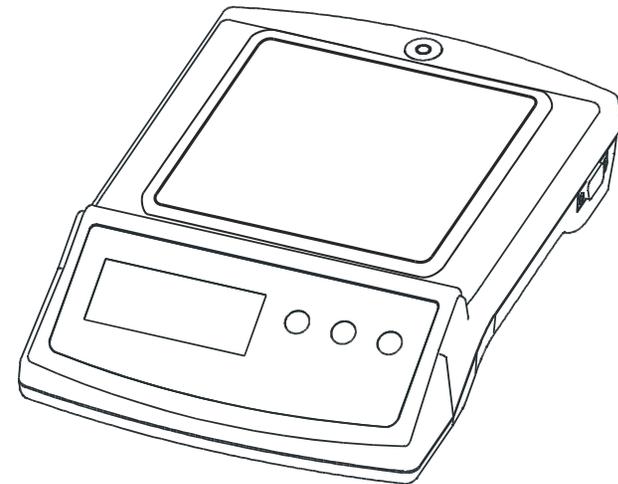
Press [ON/OFF] to turn the power off, press [ON/OFF] again to turn on the power and the scale return to the weighing mode.

PRECISION BALANCE

MODEL : VB-302

www.balances.com is your VMC deep discount distributor

INSTRUCTION MANUAL



USA
Virtual Measurements & control.Inc.
3196 Coffey Lane, Suite 604,
Santa Rosa, CA 95403, USA
Tel: (707) 573 3111 Fax: (707) 573 3113
<http://www.virtualmc.com>

ASIA
Virtual Measurements & control (Asia) Pte.Ltd.
24 Hillview Terrace Singapore 669235
Tel: (65) 67625522 Fax: (65) 6763 6656
sales@virtualmc.com

SAFETY PRECAUTIONS

All safety messages are identified by the following the words "WARNING" and "CAUTION". These words mean the following:

| | |
|-----------|--|
| △ WARNING | Important information to alert you to a situation that might cause serious injury and damage to your property if instructions are not followed. |
| △ CAUTION | Important information that tells how to prevent damage to equipment. |

When using the scale/balance, the following safety precautions should always be followed.

△ WARNING

Use only the AC adaptor with the scale/balance. Other adaptor may cause damage. (AC adaptor is optional)

△ CAUTION

Avoid installing the scale/balance in direct sunlight, this may cause discoloration or malfunctions.

Do not mix the type of batteries. Replace all other batteries at the same time.

If the scale/balance is not to be used for a long period of time, remove all batteries from the battery compartment to avoid leakage which may cause damage to the instrument.

Avoid overloading that could cause damage to the scale/balance.

Do not drop water in the scale/balance that is not water-resistant. It causes damage, if inside of the scale/balance is wet.

Matter charged static electricity could influence the weighing. Discharge the static electricity. As example, the method is to use the electrification prevention spray, to spray it to both side of weighing platform.

SPECIFICATIONS

| Model number | Capacity | Graduation | Platter Size | Windshield |
|------------------|---|------------|--------------|------------|
| VB-302-3lb | 3lb | 0.0002lb | 140x165mm | No |
| VB-302-6lb | 6lb | 0.0005lb | 140x165mm | No |
| VB-302-15lb | 15lb | 0.001lb | 140x165mm | No |
| | | | | |
| | | | | |
| Net/gross weight | 510 / 620g | | | |
| Package | Standard carton: 29×22×14(cm ³) | | | |
| | 12 Units in one box: 60×45×45(cm ³) | | | |
| Operating Temp. | 0-40°C(32-104°F) | | | |
| Power source | 6×AA Size Batteries or AC/DC | | | |
| | Adapter 9V/100mA (optional) | | | |

FEATURES

- Auto zero tracking
- Low batter indication
- Large LCD (6digits 15 mm high)
- Auto calibration
- lb
- Large square weighing pan

CALIBRATION

When to calibrate

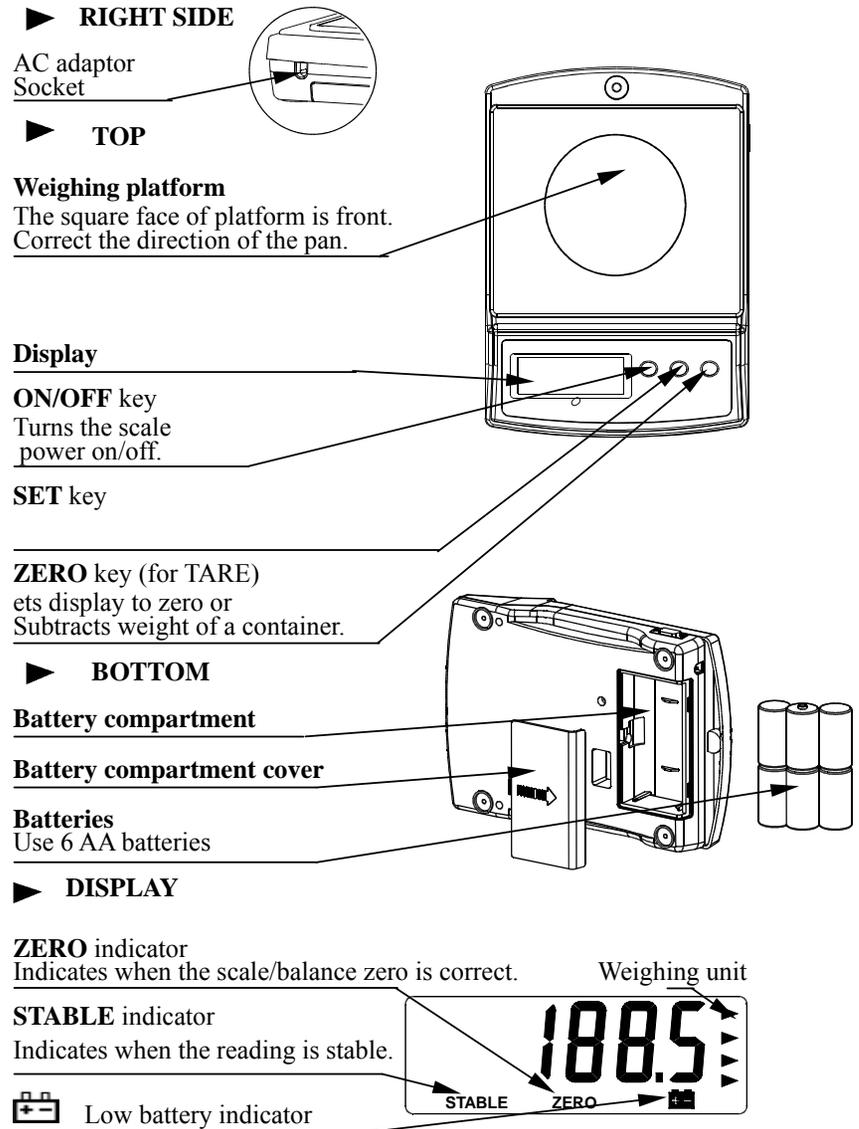
Calibration may be required when it is initially installed, if the scale/balance is moved to a substantial distance.

This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations may occur.

How to calibrate

1. Before entering calibration mode, press **[ON/OFF]** to turn the power on for 1 minute.
2. **Enter calibration mode**
Press **[ON/OFF]** to turn the power off. Press **[SET]** first, then Press **[ON/OFF]**, while keeping pressing **[SET]**, the display will show the A/D value.
3. **Calibration by the weight**
Wait for the stable indicator to be displayed, Press **[SET]** the display will show "00SAVE", after 2 seconds, the display will return to A/D value.
4. Place the calibration weight (eg. 10lb for VB-302-15lb, 2lb for VB-302-3lb, 5lb for VB-302-6lb) on platform. After the stable indicator is displayed, then press **[SET]**, the display will show "00SAVE" and now calibration is finished.
5. Press **[ON/OFF]**, turn off the power, press **[ON/OFF]** turn on the power again, place the calibration weight on the platform to make sure whether weighing is correct, if not, repeat steps 2-5.
6. **Return to weighing mode**
Press **[ON/OFF]** to turn the power off. Press **[ON/OFF]** again to turn on the power and the scale/balance return to the weighing mode.

PARTS DESCRIPTION

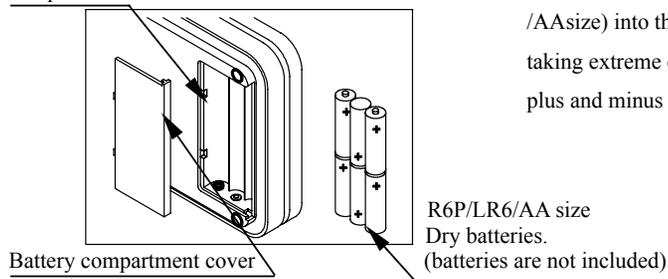


PREPARATION

1. Installing batteries/Connecting the AC adaptor

Batteries

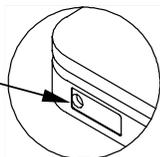
Battery compartment



Remove the battery compartment cover and insert six batteries(R6P/LR6 /AAsize) into the battery compartment, taking extreme care that the polarities plus and minus is observed.

AC adaptor (optional)

AC adaptor socket



Plug the AC adaptor to the AC adaptor socket on the side. The AC input requirement could be 110,120,220,230 or 240Volts (50/60Hz) depending on the area where used, so please verify that the adaptor is correct

2. Setting up the scale/balance

⚠ CAUTION

Avoid installing the scale/balance in direct sunlight, that may cause discoloration or malfunctions. Place your scale/balance on a firm weighing table so that the scale/balance is level. (The scale/balance will not perform accurately when it is not level.)

Place the scale/balance on the firm surface that is flat and level for an accurate weighing.

WEIGHING

Before weighing

Whenever possible, please allow the balance to warm up for 10 minutes after first turning to power on, so that the balance will function. Properly and accurately.

Error messages

EEEE: Overload

 Low battery

Calibration may be required before weighing.

Read "CALIBRATION" first and if necessary, calibrate your scale/balance for accurate weighing.

Weighing procedures

1. Press [ON/OFF] to turn on the scale/balance.

When power is turned on, all display segments appear on LCD for a few seconds and finally "0" will appear on the display.

2. Start weighing

If you do not use a container for weighing,

Verify the reading is "0". If not, press [ZERO] to display "0". Place objects on the weighing platform to weigh. When the reading becomes stable, the weighing is displayed.

If you use a container for weighing,

Place an empty container on the platform. Wait for the stability indicator to be displayed and press [ZERO]. Place the objects to be weighed in the container. When the reading becomes stable, the weighing is displayed.