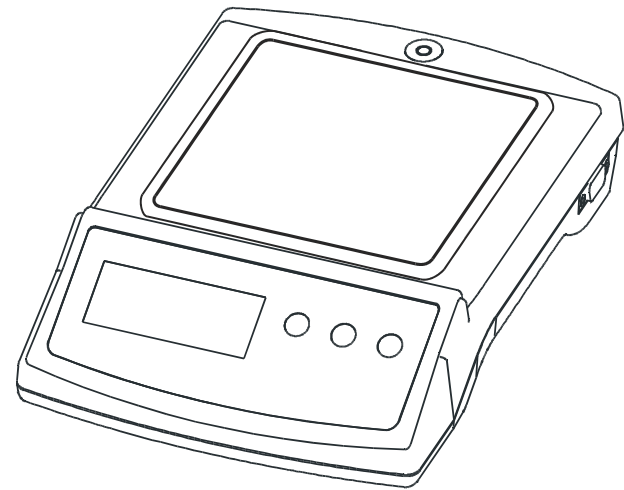


PRECISION BALANCE

MODEL : VB-301

INSTRUCTION MANUAL

www.balances.com is your VMC deep discount distributor



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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.

<http://www.balances.com>

SPECIFICATIONS

Model number	Capacity	Graduation	Platter Size	Windshield
VB-301-3000	3000g	1g	140x165mm	No
VB-301-6000	6000g	1g	140x165mm	No
VB-301-10000	10000g	2g	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
- kg/g/lb/oz
- Large square weighing pan

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CALIBRATION

When to calibrate

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

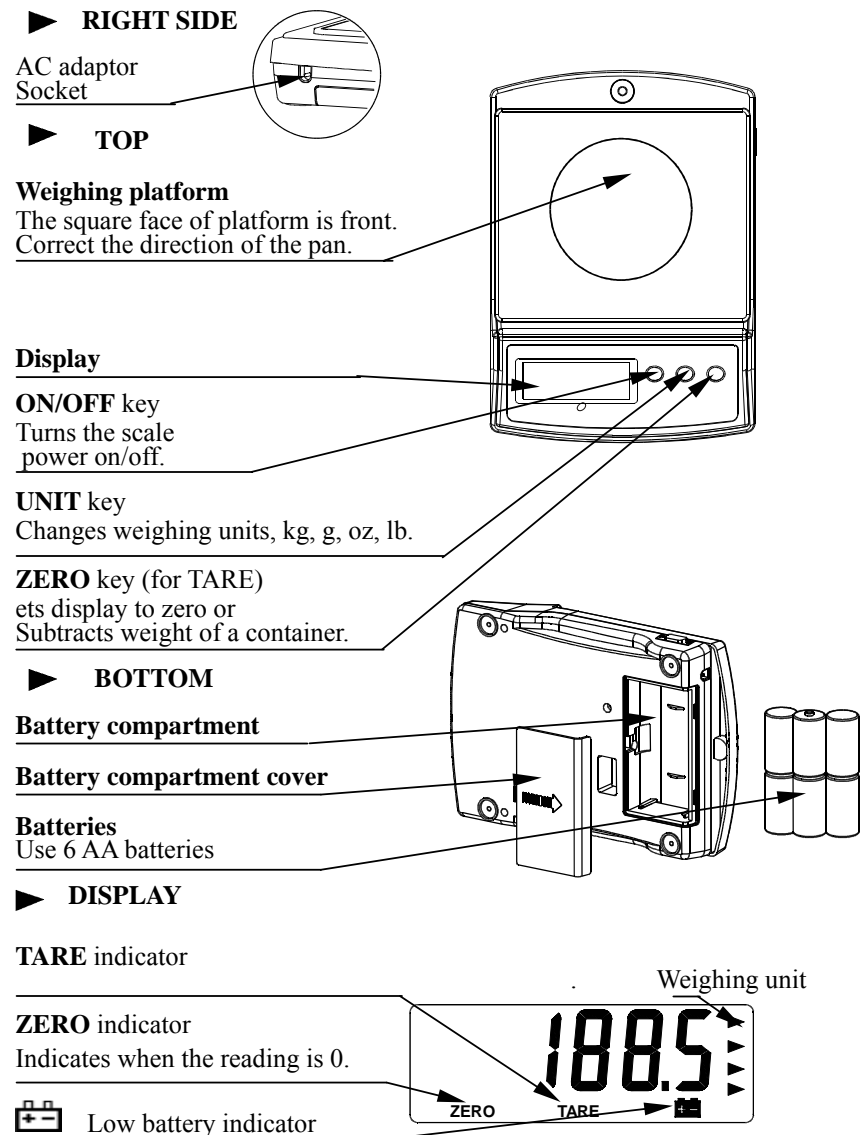
This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations may occur.

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 **[ZERO]** first, then Press **[ON/OFF]**, while keeping pressing **[ZERO]**, the display will show the A/D value.
3. **Calibration by the weight**
Wait for the stable A/D value to be displayed, Press **[ON/OFF]** key, the display will show "2Ero", after 2 seconds, the display will show calibration weight value.
4. Place the calibration weight (eg 3000g for VB-301-3000; 6000g for VB-301-6000) on the platform. then press **[ON/OFF]**, the display will show "CAL" then the "PASS" then it will return to calibration weight value now calibration is finished.
5. Press **[ON/OFF]**, turn off the power, press **[ON/OFF]** turn on the power again, place the calibration weight (eg. 3000g for VB-301-3000; 6000g for VB-301-6000) 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.

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PARTS DESCRIPTION



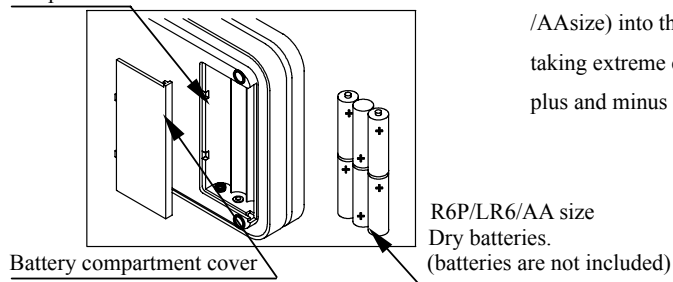
<http://www.balances.com>

PREPARATION

1. Installing batteries/Connecting the AC adaptor

Batteries

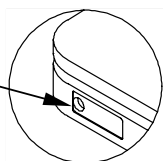
Battery compartment



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.

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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. Select the weighing unit with [UNIT].

Press [UNIT] to select a weighing unit, eg. "kg" 、 "g"、 "lb"、 "oz" .

Once the unit has been selected, the selected unit will be displayed to the weight value.

3. 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 value to be displayed and press [ZERO].

Place the objects to be weighed in the container.

When the reading becomes stable, the weighing is displayed.

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