SPECIFICATIONS

Model number	Capacity	Division
T 302	300g	0.01g
T -602	600g	0.01g
T -1002	1000g	0.01g
T -2001	2000g	0.1g
T -3001	3000g	0.1g
T -5201	5200g	0.1g
Platter	136x140mm	
Net/gross weight	3.5lb/4.5lb	
Package	Standard carton: $33.5 \times 23 \times 14 (cm^3)$	
	6 Units in one box: $48.5 \times 39.5 \times 46 (cm^3)$	
Operating Temperature	$0-40℃(32-104℉)$	
Power source	6XAAor AC/DC	
	Adapter 12V/500mA	

ERROR CODE

Error Code	Reason	Trouble Shooting
Err-O	Overload	Use within capacity.
Err-Z	1).Exceeded the zero tracking range when powering on. 2).Forgot to install pan when performing linearity calibration.	1). Pan should be empty on power up. Remove any weight from pan. 2). Install pan and then recalibrate scale （linearity calibration）.
Err-S	Inner code unstable when powering on.	1) Make sure the scale is stable when powering on. 2) Low battery, change or charge battery. 3) Allow for longer warm up period.
Err-L	Calibrating without a weight or the weight is not the correct value.	Place a calibration weight of the value shown on the display and then press calibration button.
Err-P	Counting setting error.	Place the correct size parts sample when setting up counting mode.

VERITAS

COMPACT SCALE/BALANCE

INSTRUCTION MANUAL
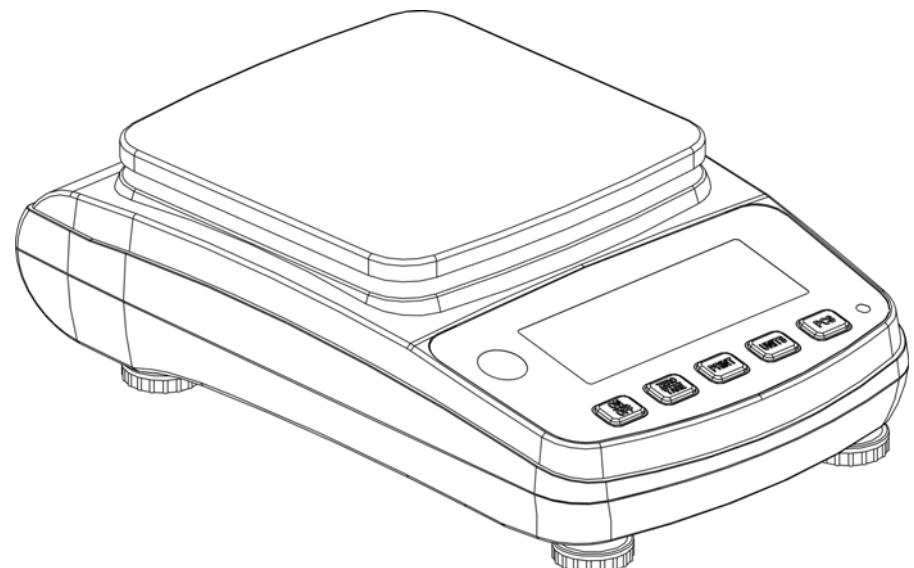
SAFETY PRECAUTIONS

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.

<div align="center">△ WARNING</div>

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

<div align="center">△ CAUTION</div>

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

- **Keep scale at room temperature, away from heat sources.**

- **Avoid shock impact and loading over capacity. Do not keep heavy object permanently on the platform.**

- **If scale is not used for an extended period, keep it clean and stored in plastic package.**

- **Matter charged by static electricity will influence the weighing.**

CALIBRATION

When to calibrate

1. Press [ON/OFF] to turn the power on for 15 minutes for warm up.
2. With scale turned off, press [ON/OFF] to turn the power on.
3. Display will show flashing digits and then "--------",
4. Press [ZERO], the display will show "CAL".
5. Press [ZERO] again , the display will show "X0000 g" where X is the flashing digit,
6. Press [UNIT] key to move the flashing digit to the right.
7. Press [PCS] key to increase the flashing digit. (X is the calibration weight which can be set according to your requirement – we recommend a minimum of 50% balance capacity).
8. Press the [ZERO] key, the display will show a series of digits known as the A/D value, these numbers will continuously move, once the display shows the stable indicator (please see page 16 for help locating the stable indicator), press the [UNIT] key, the display will then show --------, then "X00.00" or "X000.0" depending on the model and capacity.
9. Place the calibration weight on the center of the platform.
10. Press [ZERO] key to return to weighing mode.
11. Now the Calibration is completed.
12. Press [ON/OFF] to turn off the power.
13. Press [ON/OFF] to turn on the power again.
14. Place the weight on the platform to make sure weighing is correct, if not, repeat above steps.

FUNCTION SETTINGS

1. Press **[ON/OFF]** to turn on the scale, the display will show flash digits and then **--------,** press **[PRINT]**, the display will shows the **serial port b xxx BAU** value. Press **[UNIT]** to select among 1200, 2400, 4800 and 9600, our default setting is 9600.

Press **[ZERO]** to enter Parity mode, the display will show **P XXX PAR**, press **[UNIT]** to select **odd, even, none** (odd stands for 7 data bits with odd parity, even stands for 7 data bits with even parity, none stands for 8 data bit without parity)our default setting is none.

Press **[ZERO]** to enter Print mode, the display will show **n xxx Mod**, press **[UNIT]** to select **CON,OFF,KEY,STB** (**OFF** stands for serial data output disabled, **KEY** stands for demand mode by pressing **[PRINT],** STB stands for automatic print when scale is stable, **CON** stands for continuous print), our default setting is **STB**.

Press [**ON/OFF**] again to return to weighing mode.

2. Press **[ON/OFF]** to turn on the scale, the display will show flash digits and then **----------,** press **[UNIT]** to enter **unit selecting function**, the display will show **ON X** (X stands for the units :g, oz, lb, dwt…tola..), press **[ZERO]** select units, press **[UNIT]** to select **ON** (activate the selected unit) or **OFF** (inactivate the selected unit), press [**ON/OFF**] again to return to weighing mode.

3. Switch the power to "ON" and then press **[ON/OFF]** to turn on the scale, the display shows F-E-9 to 0 and than "- - - - - - -", press **[PCS]** key to select **zero range** when turn on the scale, press **[UNIT]** key to select percent (**PZR** 0**,** 2**,** 3**,** 4**,** 5**,** 10**,** 20**,** 100%FS);

Press **[ZERO]** key to set zero range, press **[UNIT]** key to select percent (**KZR** 3,4,5,10,20);

Press **[ZERO]** key to set **tare range**, press **[UNIT]** key select percent (**KTR** 50 %FS or **KTR** 100%FS);

Press **[ZERO]** key to enter **overload protection** setting, press **[UNIT]** key to select overload protection value (**OVR** 0, 2,3,4, 5, 10,20,100%FS);

Press **[ZERO]** key to set **beep function**, press **[UNIT]** key to choose turn on or turn off the beep, **"bZ ON"** means activate the beep, **"bZ OFF"** means inactivate the beep;

Press **[ZERO]** key to **unite the function of TARE and ZERO**, press **[UNIT]** to switch between them. **"ZT ON"** means unite function activate, **"ZT OFF"** means unite function inactivate.

Press **[ZERO]** key to enter **auto off function setting,** display shows **A xxx,** press **[UNIT]** key to select auto off time（3,5,10,off）.

Press **[ZERO]** to select **backlight,** the display will show L xxx, press **[UNIT]** to select **X** value (**X** stands for **AU,OFF,ON**), **OFF** stands for inactivate backlight function, **ON** stands for the backlight is always make function, **AU** stands for auto backlight .

4. Press **[ZERO]** to return to weighing mode.

PARTS DESCRIPTION

► **RIGHT SIDE**

AC adaptor Socket

DC 12V 500mA   USB

► **TOP**

Display

ON/OFF key
Turns the scale power on/off.

ZERO key
Sets display to zero

PRINT key

UNIT key
Changes weighing units

ON/OFF   ZERO   PRINT   UNIT   PCS

PCS key

►

AC adaptorSocket

USB

Weight
Weight cover

► DISPLAY

Low battery indicator
Negative value indicator

weighing unit   **TARE** indicator

STABLE indicator
when the reading is stable.

g

ZERO indicator
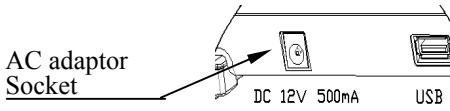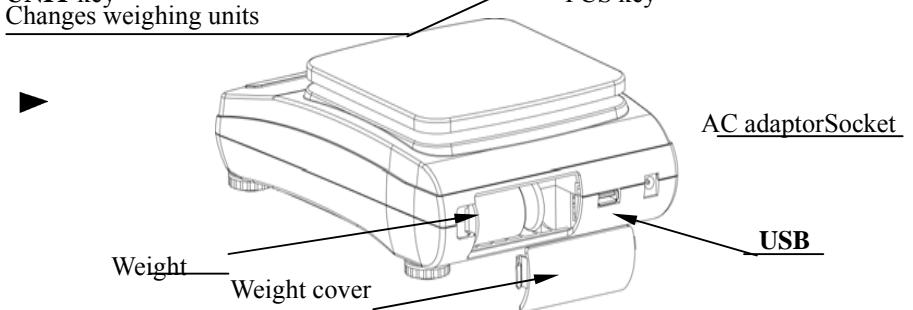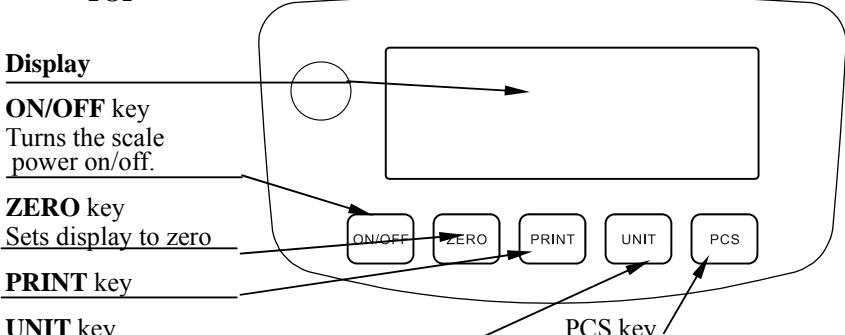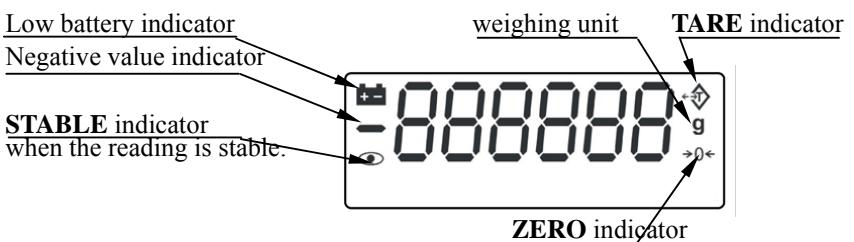
PREPARATION

1.Installing batteries/Connecting the AC adaptor

Batter compartment cover   **Batteries**   **Battery compartment**
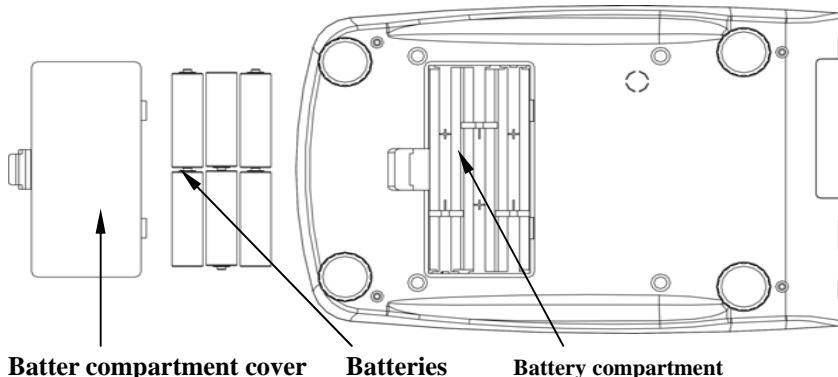
2. Setting up the scale/balance

△ CAUTION

Avoid installing the scale/balance in direct sunlight, it 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.

Counting procedures

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

    Wait for "0" to appear on the display.

2. **Start the Count Procedure**

    If necessary, press **[ZERO]** key to set the display to "0".

3. Place a given number of samples of an item on the pan (the sample size should be either 10、20、50 or 100 pieces). The weight of these samples will show on the display. Press the **[PCS]** key to put the scale in PCS mode, the display will show X X pcs, press **[UNIT]** to select XX value (10 20 50 100).

4. Press the **[PCS]** key, the display will show "XX pcs", then the scale will recall the sample size you selected and show the starting sample size on the display (you can now remove the samples if you want to return the scale to 0)

5. Press the **[UNIT]** key to return to the weighing mode

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.

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 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. "g"、" ct "······

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 stable indicator 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 stable indicator is displayed.

FEATURES

- Auto calibration
- Auto zero tracking
- Low battery indication
- Lager LCD Display
- USB
- 1/120000&1/200000 division available

● Auto shut off (selectable)
● Auto backlight (selectable)
●g/ct….. conversion(selectable)
● with counting function(selectable)
●Net weight/stability indication

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