

KD-TBED series

Electronic weighing scale instruction manual



I. OVERVIEW

1. LED display : 7 digits,
2. 3. units to be selected (g/ct/ozt, 1ct =0.2g, 1ozt=31.1034768g)
3. Be able to count;
4. Options : RS 232 interface;
5. AC or DC power supply, outfit AC/DC adaptor;
6. Pan site Ø116mm (round , Max.Cap < 1000g) , 125 mm X 145 mm (Square, Max.Cap >1000g)

II. ATTENTIONS.

1. Prevent it from getting wet.
2. Do not place the balance in an environment with extreme temperature or humidity.
3. Do not shock the balance and do not exceed the capacity.

III. Preparations.

1. Before using the Balance, Please take out the protection screw from the left of the balance, then plug up with the circular plastic cap, Otherwise, the balance will not work.
2. The balance must be in an exactly horizontal position in order to achieve accurate for high precision balance Re-calibration before each use in preferable

Please don't turn the balance on to work before the above items are well prepared

IV. EXPLANATION OF DISPLAY PARTS

: “ Zero “ Indicator .



: “ Tare “ indicator.



: “Power – Low” indicator.



: indicator that the reading is stable.

PCS : indicator that the balance is in counting mode.

CT : indicator that the unit is Ct.

OZT: indicator that the unit Ozt.

g : indicator that the unit g.

V. Keypad functions: Phím chức năng.



: On /OFF power swich. **Phím Mở nguồn/ Tắt nguồn**



: For weigh unit selection (g /ct/ ozt). **Phím chuyển đổi đơn vị**



Sample key, used for samplinh (for calculating the unit weight) in counting : mode. **Phím chức năng đếm số lượng PCS**




: Tare key, used to subtract the weight of an item or container. Press tare key again to exit the tare mode (when empty). **Phím trừ bì**




: Zero key, press this key to return the display to zero if a small weight is left while unloaded. **Phím trở về không**

VI. Operations:

Press  key to turn the balance on ; the default mode is weigh mode.


Weight mode

Weight units

Press  key to choose the needed unit.

Tare function




Put a container on the pan and press  when the display reading is stanble. The tare weight will be stored into memory and dislay will be brought to zero. Tare indicator in the display will appear, The weight added here aferwards and the objects, the display will show the weight of the container companied by a





negative sign. To cancel the tare mode, Press the Tare key again to cancel Tare mode.

Tare range : Up to balances maximum capacity.


Zero function

Press  key to return the display to the center of zero if the zero Shifts during operation.
Counting mode

Sampling

1. Press  key, the display will show “Cnr 10 “.Press the key  again and again, 10,20,50,100 (pcs) will appear in succession. Stop at the one you want to use.
2. Put the exact quantity of samples as desired on the pan and press , the determined sample size will be shown. After sampling, its ready to count.
3. If the unit weight is too small (less than 0.25d) for the counting resolution, “ E
rr “ will be show.
4. In counting mode, press  key will return to weight mode.

VII. Error messages:

When the display shows”  “ and beep out a warning, it means that the balance is overloaded. Please remove the object from the pan immediately so as to avoid damage to the load sensor inside the balance.

VIII. Instructions of RS – 232 communication(optional)

1. Model EIA- RS232 C’s UART signal
2. Format
 - (1) Baud rate : 2400 bps (1200 bps, 4800bps,9600bps)
 - (2) Data bits :8 bits
 - (3) Parity bit : none
 - (4) Stop bit : 1 bit
 - (5) Code ASCLL

DATA RORMAT:

HEAD1, HEAD2 DATA UNIT CR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
 HEAD1 (2BYTES) HEAD2 (2BYTES)
 Us – unstable NT – net weight mode
 ST – stable GS – GROSS WEIGHT MODE
 OL – overload
 DATA (8BYTES)
 2D (HEX) =”-“ (negative sign) 20 (HEX) =” “ (Blank)
 2E (HEX) =”-“ (Decimal point)

UNIT (4 BYTES)
 G = 20 (HEX) ; 20 (HEX) ; 20(HEX) ; 67 (HEX)
 CT = 20(HEX) ; 20(HEX) ; 63 (HEX) ; 74 (HEX)
 OZT = 20 (HEX) ; 6F (HEX) ; 7A (HEX) ; 74(HEX)

Transmission example:

Ex: stable net + 0.168 g
 HEAD1, HEAD2, DATA, UNIT CR
 ST , NT, +0.168 g 0D0A

IX. Power supply





Alternative Power Supplies

1. DC 6V/1.3Ah rechargeable sealed lead- acid battery.
2. 8.5 V / 0.2A AC/DC power adaptor.


Low voltage indication

When the voltage of the batteries is lower than 5.8 V +(-)0.15V the Power – LOW LED will be lighted up. The lead- acid battery should be recharged. Or else, the display reading will be unstable and the balance will auto power-off when the voltage of the batteries lower than 5.1V +(-)0.15V.


X. Calibration

- (1) Press and hold  key when press on, it will display “CAL”
- (2) After the stable indicator LED lightd, press  key, the screen will show”000000”
- (3) To key in the value of the weight to be placed on the pan, press  key to shift the twinkling number; Press  to increase the value of twinkling number.(decimal fraction is invalid)


(4) Place a weight which value equal to the value just entered and after the reading is


stable, press  key to complete external calibration, and the screen show the value of the weight

Note: The weight placed on the pan is not correct if the display shows “Err 1”

1. Mở nguồn và nhấn giữ phím  cho tới khi màn hình xuất hiện chữ CAL ,

2. Sau đó tiếp tục nhấn phím  màn hình xuất hiện “000000”

3. Giời số bằng phím 

4. Tăng số bằng phím 

5. Bỏ tải hiện có lên mặt bàn cân , ít nhất 1/3 tải max của cân

6. Tiếp tục nhấn phím  thì màn hình xuất hiện trọng lượng tải của quả cân.

7. Kết thúc quá trình canh chỉnh của cân.

XI. Setting filter parameters:.

1. Press and hold the key until display “nb0” or “nb1” or”nb2” or”nb3”or”nb4” or”nb5” or”nb6” or”nb7”.
2. Select the applicable parameter by pressing key, and confirm the setting by pressing key. The parameters “nb0”den “nb4” means that response speed is slow den fast.
3. After the setting of filter parameters, the balance will turn to the selection of divisions. First, the current divisions will be show.You can use key to select and key to confirm.Then it will turn to only which is large than the current division.

XII. Setting of Zero parameters and communiccation parameters

1. Press and hold the key to enter the setting of zero tracking range. The display will show “0.0d” or “0.5d” or”1.0d” or”1.5d “or”2.0d” or”3.0d” after self-test.
2. Press key to select and press key to confirm and go to the setting of zero display range. The display on the screen is “Zer-S” (invalid) or “Zer-L” (display “0” while the weight within the range of +(-)d)
3. Press key to select and press key to confirm and go to the setting of communication mode. The display on the screen is “St” (output when the reading is stble)or “CO” (continue output)

4. Press key to select and press key to confirm and go to the setting of baud rate.
The display on the screen is “1200”or”2400”or”4800”or”9600”
5. Same as above, Press key to select and press key to confirm.

XIII. Single- double range selection

Press and hold key when power on, it will display the current set, such as”SIN”, press key to select the applicable parameter (SIN – single range, **dbl**- double range), then press key to confirm.

| MODEL | KD –TBED 300g | KD –TBED 600g | KD –TBED 1200g | KD –TBED 3000g |
|---------------------------------------|------------------------------------|------------------|---------------------------|-------------------|
| Weighing capacity and readability (g) | 300g×0.01g | 600g X 0.01g | 1200g X 0.01g | 3000g X 0.1g |
| Standard deviation (e) | 1 | 1 | 1 | 1 |
| Linearity (e) | 1 | 1 | 1 | 1 |
| Corner deviation (e) | 1 | 1 | 1 | 1 |
| Taring range | 0-300g | 0-600g | 0-1200g | 0-3000g |
| Overload capacity | Maximum capacity+9e | | | |
| Time of stabilizing (s) | 3 | | | |
| Applicable temperature rang | 10-35°C | | | |
| Power source | AC adapter(supplied with balance); | | | |
| Pan size (mm) | Φ116 < 1000G | | 124 X 144 > 1000g | |
| Housing dimension (mm) | 251 (L) ×172 (W) × 58 (H) | | 272 (L) ×176 (W) × 58 (H) | |
| Net weight(g) | 1050 | | 1000 | |

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