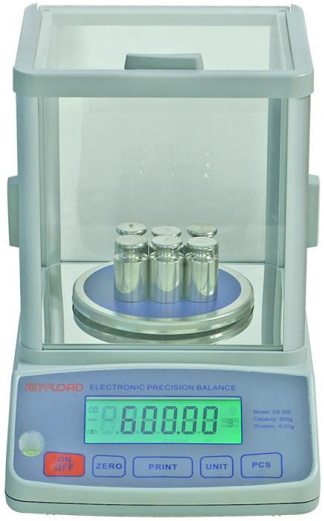
Precision Scales

(EB100 / EB200)

Operation Manual

(V0116)



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Contents

1. SAFETY PRECAUTIONS

All safety messages are identified by the following the words "**WARNING**" and "CAUTION". These words have the following meanings,

△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 placing the scale/balance in direct sun light which may cause discoloration or malfunctions.

Do not mix the type of batteries. Replace all 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 into 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 on to both sides of weighing platform.

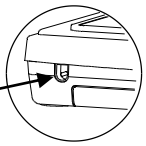
2. FEATURES

- Auto calibration
- Auto zero tracking
- Low battery indication
- Large LCD Display
- Net weight/stability indication
- 1/120000&1/200000 division available
- Auto shut off (optional)
- Auto backlight (optional)
- g/ct/oz/tola conversion(optional)
- Counting function (optional)

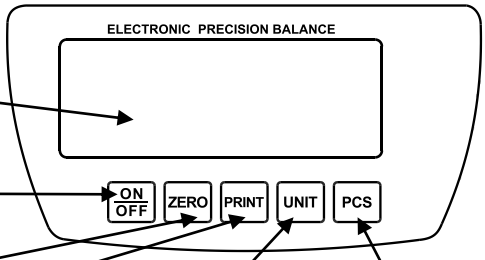
3. PARTS DESCRIPTION

► RIGHT SIDE

AC adaptor
Socket



► TOP



Display

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

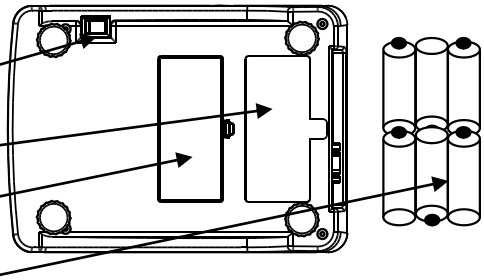
Zero key
set display to zero

PRINT key (optional)

UNIT key
Changes weighing units, g, ct, oz, tola……

TARE PCS
key

► BOTTOM



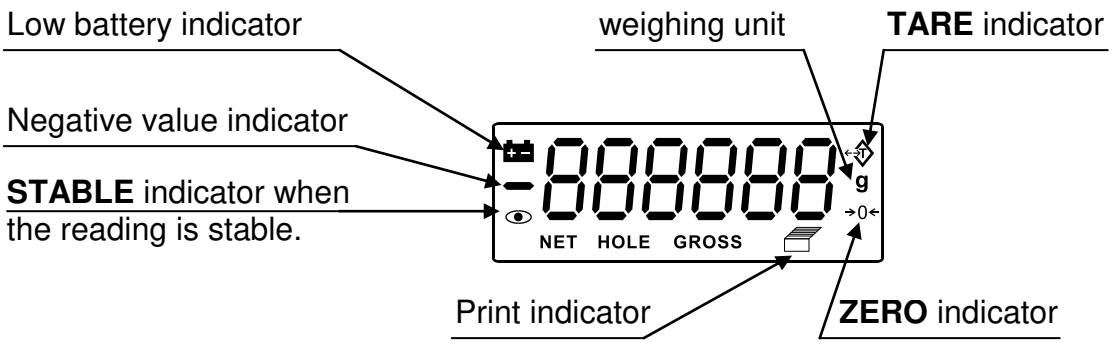
Switch key

Battery compartment

Battery compartment cover

Batteries
Use 6 AA batteries

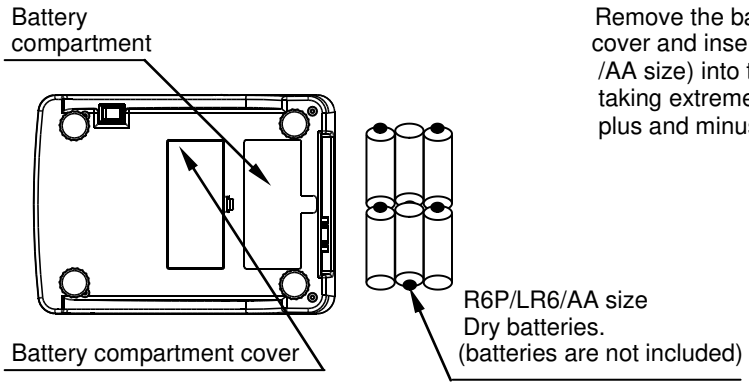
► DISPLAY



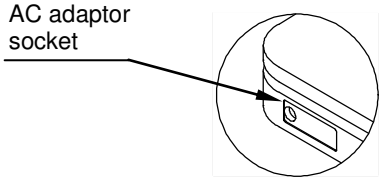
4. PREPARATION/INSTALLATION

4.1 Installing batteries/Connecting the AC adaptor

Batteries



AC adapter (optional)



4.2 Setting up the scale/balance

⚠ CAUTION

Avoid placing 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.

5. WEIGHING

5.1 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.

5.2 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.

5.3 Weighing procedures

5.3.1 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.

5.3.2 Changing Units

Press **[UNIT]** to select a weighing unit, eg. "g"、" ct " 、" oz "、" tola " …….

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

5.3.3 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.

6. FUNCTION SETTINGS

Press [ON/OFF] to turn on the scale, the display will show flash digits and then --------,

6.1 Setting BAU Value

Press **[PRINT]**, the display will show **b xxx** BAU value (press [UNIT] to select among 1200, 2400, 4800, 9600), our default setting is 9600.

6.2 Setting Parity Mode

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.

6.3 Setting Print Mode

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

6.4 Setting Unit Selection

Press **[UNIT]** to enter unit selecting function, the display will show ON X (X stands for the units: g,oz, lb,twt…tola..), press [UNIT] to select ON (activate the selected unit) or OFF (inactivate the selected unit), press [ZERO] again to return to weighing mode.

6.5 Setting ZERO track

Press [TARE] key to enter ZERO track function setting, display shows **ZRD x.x**，press [UNIT] key to select ZERO track value（0.0d-0.5d-1.0d-1.5d-2.0d）, press [TARE] key to enter

ZERO track function setting display shows **ZRT x.x**，press [UNIT] key to select ZERO track time（05. to 4.0 seconds, press [ZERO] key to enter ZERO setting，display shows **RZD XXX**, press [UNIT] key to select ZERO value（0.8d-1.8d-2.8d-3.8d）, press [ZERO] key to enter **FIL** setting, press [UNIT] key to select filter range amend (0-1-2-3-4-5-6-7), "2" is default setting, press [ZERO] key to select zero range when turn on the scale, press [UNIT] key to select percent (**PZR** 2, PZR 5, PZR 10. PZR 20), press [ZERO] key to set zero range, press [UNIT] key to select percent.

7. Counting procedures

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

Wait for "0" to appear on the display.

7.2 Start the Count Procedure

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

7.3 Press the **[PCS]** key to put the scale in PCS mode, the display will show P=X X, press UNIT to select XX value (10 20 50 100). 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.

7.4 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).

7.5 Press the **[PCS]** key to return to the weighing mode.

8. CALIBRATION

8.1 When to calibrate

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

8.2 How to calibrate

8.2.1 Before entering calibration mode, there is a switch key on the bottom of the scale. Turn on the switch key first, press **[ON/OFF]** to turn the power on for 1minutes.

8.2.2 Enter calibration mode

Press **[ON/OFF]** to turn the power on, the display will show flash digits and then "-------", Press **[ZERO]**, the display will show "CAL" , Press **[ZERO]** again , the display will show **"X0000** CAL**"** , **X** is flash digit. Press **[UNIT]** key the flash digit will move to right. Press **[PCS]** key to increase the flash digit. ***(X is the calibration weight which can be set according to your requirement).***

8.2.3 Calibration by the weight

Select the calibration weight. Then place the calibration weight on platform. Then press **[ZERO]** key**,** the display returns to the weight value. Now the calibration is complete.

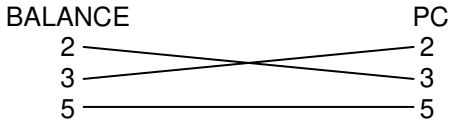
8.2.4 Press **[ON/OFF]**, turn off the power, press **[ON/OFF]** to turn on the power again. Place the weight on the platform to make sure whether weighing is correct, if not, repeat steps 2-4.

8.2.5 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 returns to the weighing mode.

9. RS232 Data Interface

9.1 Connector: DB9



9.2 Transmissions Settings

Mode: Simplex Asynchronous Serial	Baud Rate: 9600
Data Bit: 8	Parity Bit: None
Stop Bit: 1	Data Format: ASCII

9.3 Transmission Information Format： 20 Byte， blank=20H

1~2	3	4~13	14~18	19	20
'W: '	P	DATA	UNIT	CR	LF

W: Start of Data Transmission=57H+3AH
P : Polarity '+' = 2BH = Positive '-' = 2DH =Negative
DATA: ' 12.345'= 20H+20H+20H+20H+31H+32H+2EH+33H+34H+35H
UNIT: 'g' =67H+20H+20H+20H+20H
'oz ' =6FH+7AH+20H+20H+20H
'lb' =6CH+62H+20H+20H+20H
'dwt' =64H+77H+74H+20H+20H
'ozt ' =6FH+7AH+74H+20H+20H
'ct ' =63H+74H+20H+20H+20H
'tl.T' =74H+6CH+2EH+54H+20H
'tl.H' =74H+6CH+2EH+48H+20H
'tl.J ' =74H+6CH+2EH+4AH+20H
'GN' =47H+4EH+20H+20H+20H
'dr' =64H+72H+20H+20H+20H
'MM' =4DH+4DH+20H+20H+20H
'tola' =74H+6FH+6CH+61H+20H
'gsm' =67H+73H+6DH+20H+20H
'T/A/R' =54H+2FH+41H+2FH+52H
'T/M/R' =54H+2FH+4DH+2FH+52H
'pcs' =50H+43H+53H+20H+20H
CR: = 0DH
LF: = 0AH

9. SPECIFICATIONS

9.1 EB100

Model number	Capacity	Division
EB -100	3000g	0.05g/0.1g
Platter	170 x 180mm	
Net/gross weight	1350g/1500g	
Package	Standard carton: 34×22×14(cm^3)	
	6 Units in one box: 47.5×38.5×45(cm^3)	
Operating Temperature	0-40℃(32-104℉)	
Power source	6xAA batteries or AC/DC	
	Adapter 10~12V/150mA (optional)	

9.2 EB200

Model number	Capacity	Division
EB -200	600g	0.01g/0.005g
Platter	φ115mm	
Net/gross weight	3800g/4700g	
Package	Standard carton: 34×22×14(cm^3)	
	6 Units in one box: 47.5×38.5×45(cm^3)	
Operating Temperature	0-40℃(32-104℉)	
Power source	recharge or AC/DC	
	Adapter 10~12V/150mA (optional)	

10. Error Code

Error Code	Reason	Solution
ERR-O	Over load	Make sure the load is within the full scale capacity
ERR-2	1).exceed Zero tracing range when power on. 2). Forgot to place platform when linearity calibration	1). tack off the weight when power on 2). place platform and then recalibration
ERR-5	inner code unstable when power on	1). load cell was being toughed 2). E+ power supply unstable 3). there are capacitance creepage of C1AD~C6AD
ERR-C	forgot to input calibration weight when calibrating	CAL~000000~ press [UNIT] and [PCS] (TARE) key to input calibration weight
ERR-P	counting setting error	place sample when counting

		setting
ERR-L	forgot to place test weight when calibrating	place test weight when calibrating
ERE-E	there are something wrong of memorizer	check U24c02

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