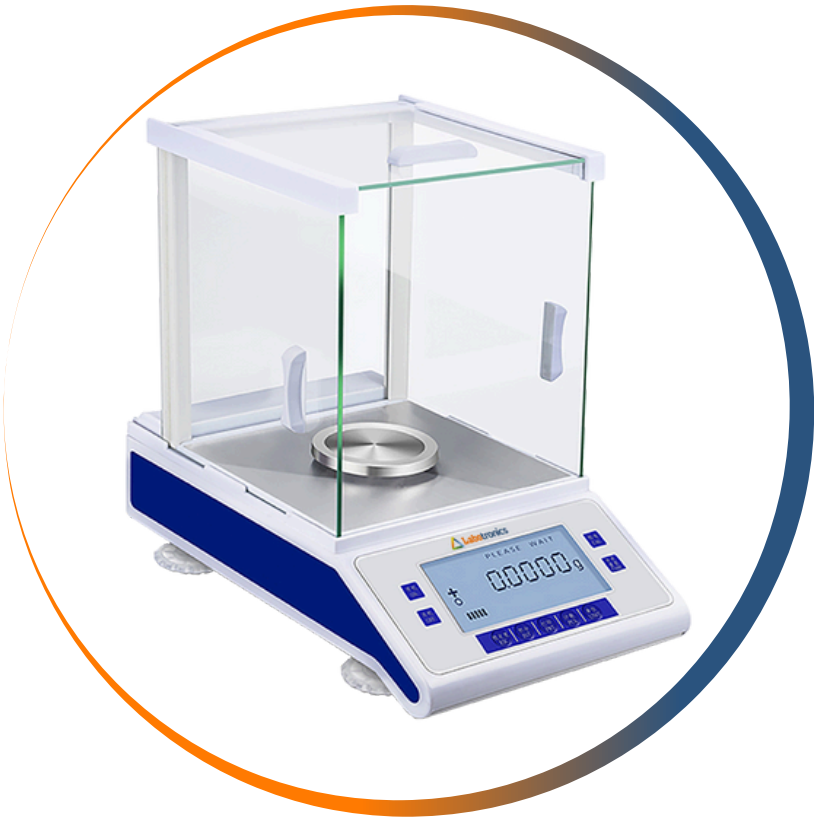
Labotronics



Electronic Analytical Balance

LB-11EAB

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1. Safety Measures

1) The balance should not be placed in a location that will reduce the accuracy.
2) Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.
3) Avoid unsuitable tables. The table or floor must be rigid and not vibrate.
4) Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.
5) Do not place near vibrating machinery.
6) Avoid high humidity that might cause condensation. Avoid direct contact with water. Do not spray or immerse the balances in water.
7) Avoid air movements such as from fans or opening doors. Do not place near open windows or air-conditioning vents.
8) Keep the balance clean. Do not stack material on the balances when they are not in use.

2. Introduction

Electronic Analytical Balance LB-11EAB is a high precision balance with an electromagnetic sensor. Features 0.0001 g of repeatability with 120 g of capacity and external calibration. With LCD display and RS232 interface, this unit can be connected to external PC and printer for easy data processing and analysis.

3. Features

1. High precision balance with electromagnetic sensor
2. 0.0001 g of repeatability and external calibration
3. Stainless steel weighing pan with aluminum base
4. Safety functions for stable and reliable operation
5. Unit conversion and tare/counting function
6. RS232 interface for easy data processing and analysis
7. High precision unit for quick and reliable operation

4. Specifications

Model No.	LB-11EAB
Capacity	120 g
Readability	0.0001g
Linearity error	±0.0003 g
Calibration type	External
Calibration weight	100 g
Preheating time	30 min
Stable time	≤ 5 sec
Working temperature	15 to 25°C
Scale pan	Φ 80 mm
Power supply	AC 220/110 V, 50/60 Hz
Dimension (W×D×H)	360×205×330 mm
Packaging dimension (W×D×H)	500×350×480 mm
Net weight	6.5 kg
Gross weight	7.6 kg

5. Applications

Electronic Analytical Balance is used for the determination of mass of solid objects, liquids, powders and granular substances across laboratories, research, pharmaceutical etc.

6. Installation

6.1 Unpacking the Balance

Remove the balance from the packing by carefully lifting it out of the box. Inside the box, you will find everything needed to start using the balance.

6.2 Setting up the Balance

1) Assembling the balance

- Locate balance on a solid surface, free from vibration.
- Open the sliding door and gently place the stainless steel top.
- Level balance using the adjustable feet and the bubble level.
- Connect the power to the balance.
- For best performance, let the balance warm up for 30-60 min. and calibrate before using.

2) Levelling the balance

After placing the balance in a suitable place, level it by using the bubble level. To level the balance, turn the two adjustable feet at the rear of the balance until the bubble in the bubble level is centred.

7. Operations

7.1 Sensitivity Setting

Keep pressing ON, when "**Stab**" is shown in the display. Then the operation follows as below:

- Poorest Sensitivity
- Poor Sensitivity
- Normal Sensitivity
- High Sensitivity

Press →0/T← to save setting

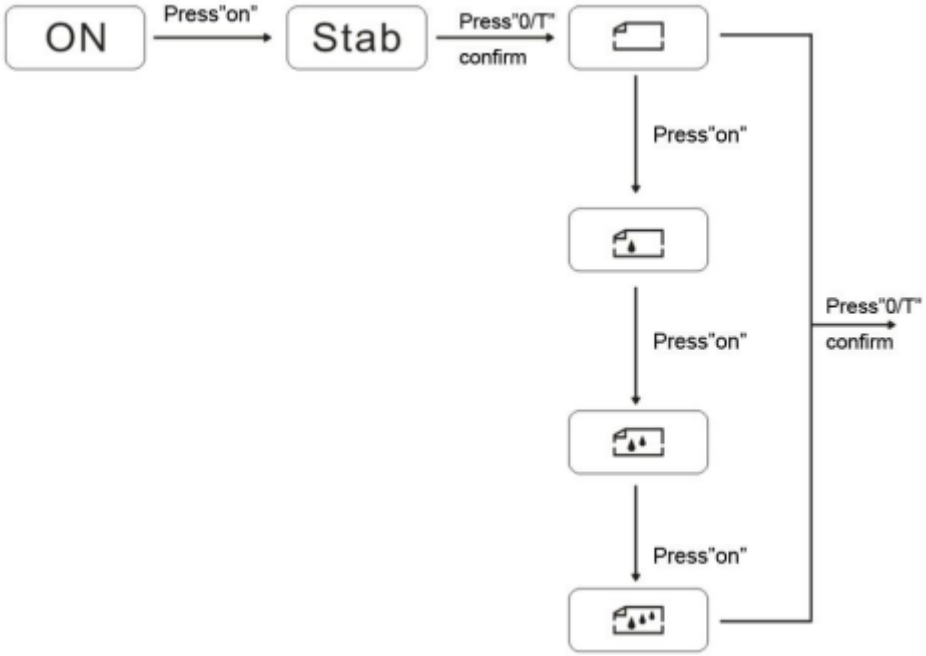


Figure-1

7.2 Speed Setting

Keep pressing ON, when **"Speed"** is shown in the display. Then the operation follows as below:

- Highest Speed
- High Speed
- Normal Speed
- Low Speed

Press →0/T← to save setting

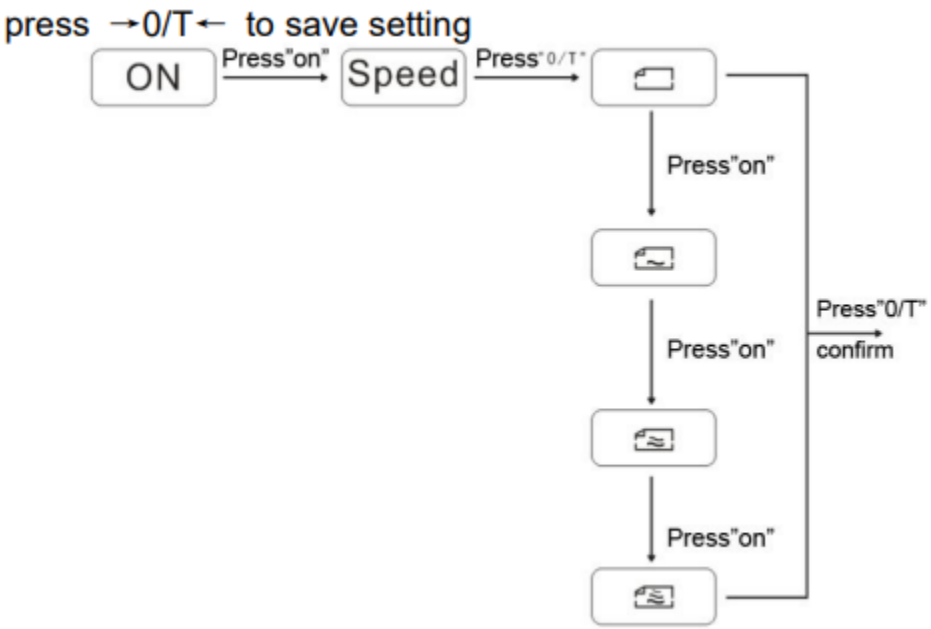


Figure-2

7.3 Weighing Unit Setting

Keep pressing ON, when the unit is shown, and then the operation follows as below:

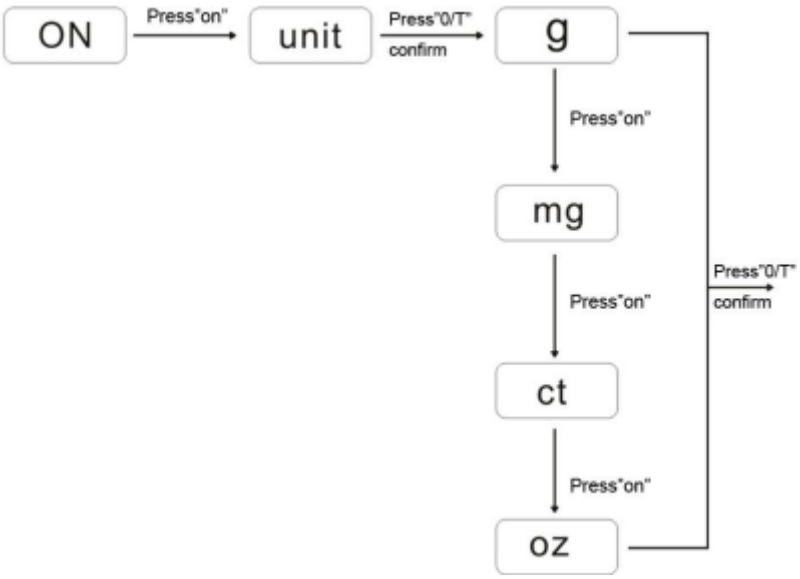


Figure-3

7.4 Counting Function

There are counting functions in the balance, and you can use this to count the quantity. And keep the products have the same weight, and the minimum weight must be ≥0.5mg. The details operation are as below:

1) Press the "**ON**" key, enter the menu, then press the "**ON**" key, until it shows "**COU**":



Figure-4

2) Press"**0/T**" to enter the counting function, it shows " COU 5pcs.



Figure-5

3) Press "**ON**" choose the quantity for the sample, and put on the same weight, press "**0/T**" enter:



Figure-6

4) It will show the number after COU, and then you can begin the counting.



Figure-7

5) After the counting press "**ON**" and choose "**weight**", "press" 0/T back to the weighing.



Figure-8

7.5 Internal Autocalibration Time Setting

Press "**ON**" until it shows "**AUTO CAL**", Press "**0/T**" to enter the automatic calibration time setting, and press "**ON**" to choose a different time:

 - 10 minutes of automatic calibration

 - 30 minutes of automatic calibration

 - 60 minutes of automatic calibration

 - Turn off the automatic calibration

Finally, Press "**0/T**" to confirm the setting.

7.6 Data Output

1.	Model or a decimal point
2.	A space or a decimal point
3.	A space
4.	+ or - or a decimal point
5.	Data
6.	Data or a decimal point
7.	Data or a decimal point
8.	Data or a decimal point
9.	Data or a decimal point
10.	Data or a decimal point
11.	Data or a decimal point
12.	Data
13.	Unit 1
14.	Unit 2
15.	Unit 3
16.	Enter
17.	Wrap

8. Troubleshooting

If you come across any problem, you can check it by yourself and find the reasons.

Fault	Reason	Exclude
No display	Not connected to the power supply.	Plug in the power line.
	The fuse is broken.	Replace the fuse.
	Power transformer damage.	Replace the power transformer.
Weighing unstable	Bad working conditions.	Keep the environment stable, and close the windows and doors.
	The windscreen is open.	
	Something b/w table and balance.	Close the glass door.
	The power and weighting are unstable.	Take away the things and connect the stabbing power.
The weighing digits wrong	The balance is not calibration.	Calibration.
	No tare before weighing.	Tare before weighing.
	Not adjusted.	Adjust the level of feet.

9. Accessories

Optional Accessories
Printer