

JY series electronic balance adopts load cell of a scene of types that resistance meets an emergency in high accuracy and microprocessor in high function and low power. It includes following function: Automatic self-calibration, Tare, Memory, Count and Error Indication. It solves the problems of linearity and slowly changes via the resistance sensors. Full functions and simple manipulation by simple design, precision, quick and stability. The balance can be used to measure the quality and quantity of projects in the areas of industry, agriculture, commerce, school and scientific institute.

**The balance follows the JB5374-91 standards.**

Power supply: 110v50HZ	largest power waste: 3W	exactitude grade: III
Type: JY102.....JY3002	most weight volume: 100g.....3000g	
Less reading volume (d): 10mg	measure volume (e): 100mg	
Type: JY1001.....JY10001	most weight volume: 1000g....10000g	
Less reading volume(d): 100mg	measure volume(e):1g	
Type:JY103.....JY303	most weight volume: 100g.....300g	
Less reading volume(d): 1mg	measure volume(e):10mg	

**1.Operation:**

1. Place the balance on a smooth and steady table. Avoid vibration, sunshine, air movement and magnet.
2. the air temperature should be kept at about 5c-35c all times with a relative humidity level of about 50-85%. The tolerance of temperature is 5c/h.

**2. Start**

1. the balance accepts AC input voltage of 110V. Turn the button to the center of the bleb.

2. please connect power supply and turn the balance on. It will display “8.8.8.8”, “max capacity” and “\_ \_” step by step. The display time of “\_ \_” is according to the stability of sensor. Please don't put the balance on the table which is in the wind or not steady. You can use it after it displays "0", "0.0" or "0.00".

3.Calibration

1.Place the balance on a smooth and steady table. Avoid vibration, sunshine, air movement and magnet. You had better warm the balance up for half an hour then the calibration will be effective.

2.Calibration operation

single calibration:Press and hold "CAL" key, After about 3 seconds, loose the key when it display "-CAL-". Then the balance display "weight values", place the displayed weight on the balance pan. Then it will display "----" to become the waiting state. After a moment, the balance display weight values. Please remove the weight from the balance pan. It will display "-----" to become the waiting state. It display "0", "0.0", or "0.00" at last. You had finished the calibration. If the balance is still uncorrect, please repeat the operations.

multi calibration: Press and hold "CAL" key. After about 3 seconds, loose the key when it display "-CAL-". When it display "weight values", press and hold "PCS" key for about 2 seconds. Loose the key as it display "-CAL-". Then the balance display "the first weight values", place the displayed weight on the balance pan. Then it will display "----" to become the waiting state. After a moment, the balance display "the first weight values" and then please remove the first weight from the balance pan. It will display "-----" to become the waiting state. The balance display "the second weight values", please do the same operations of the first weight. (Change the weight from the first weight to the second weight.) Then repeat the same operation untill it display "0", "0.0", or "0.00". You had finished the calibration.

#### 4. Weigh

1. Start the balance and warm it up. Finish the calibration. You can use it after it displays "0", "0.0" or "0.00".
2. Place the object you want to weigh on the balance pan, it will display the weight value.

#### 5. Tare

1. Place a container on the balance pan, it will display the weight value.
2. Press "TARE" key. The balance will display "0", "0.0" or "0.00". Then it is the tare state.
3. Place the object in the container, the balance will display the weight value.

#### 6. Count

1. Set up an average number.  
Place a container on the balance if you need a container to contain object. Press "PCS" key, place 10 pieces of object you want to weigh on the balance pan while the balance displays "10" flashed. Press "PCS" key to confirm, the balance will display "---". After that, the balance will display "10", it means you had finished the installation of the average number. Now you can count object.
2. If you want to count or accumulate different object, you had better choose a big average number for counting. Press "PCS" key and it will display "10". Press "CAL" key to choose average number range from "10" to "250". Now you can use it according to Step 6.1.
3. Press "PCS" key to exit the count state. The balance will display "----" and then it exit the count state.

#### 7. The overweight warning

The balance will display "----" if your object overloads Max+9e of the full capacity. Please remove your object that time or it will destroy the balance.

#### 8. Notice

1. Please warm the balance up before using it.
2. The object cannot overload the full capacity of the balance.
3. If the balance is not correct, please calibrate it with weight values.
4. Please switch the balance pan according to the direction of hour hand if you want to remove the pan. Don't lift it up directly.
5. Error information table

Error Information	Specification	Transaction
_____	It means that the object's weight on the balance pan is overload.	Calibrate the balance.
-----	It means that the object's weight on the balance pan is less than 0 gram..see term 7	Calibrate the balance.
Err-1	It means that you turn on and off the balance continuously.	Turn the balance off.the turn it on after 3 seconds.
Err-2	It means that the object's weight is not stable.	Do not operate anything.

#### 9. Fittings

the electric balance(1), specification(1), credit standing card, balance pan(1), quality card, power supply wire(1), fuze(1)(included in the connector).

#### 10. choose fittings

standard weight value(1)

**The specification will be changed with the production. If there are some different, please according to the production.**