



# INSTRUCTION MANUAL

## FOR PRECISION BALANCE YP SERIES



*Thank you for choosing our electronic balance.*

# Outline

Thank you for purchasing **YP** series electronic balance.

The YP models are high performance electronic balances that we confidently recommend based on 20 years of precision balance manufacture. While there models are of course capable of fast and accurate weighing, the YP models all work on high precision strain gauge load cell which implements high speed stabilization and high reliability.

The YP series balances also feature operation keys, improving operating convenience and making the balances easier to use.

These balances also feature a variety of other functions that make it more convenient for customers to use for their own applications, including the Window Direct communication function, which enables measuring results to be transferred to a PC without installing any software.

To ensure that you can make full use of the performance and function of your YP series balances, read this instruction manual carefully and use the balance correctly in accordance with the directions in the manual. When you have finished reading the manual, keep it in a safe place together with the balance so that you can refer to it at any time.

**YP series precision balance work on high precision strain gauge load cell which implements high speed stabilization and high reliability.**

**Specifications,**

Model No. (YP)	1000	2000	3000	4000	5000
Max. Capacity (g)	1000	2000	3000	4000	5000
Tare Range (g)	0-1000	0-2000	0-3000	0-4000	0-5000
Readability	1g				
Pan Size (mm)	143*192mm				
Dimensions (LxWxH)	280x180x80mm				
Power supply	AC 110-120V/220-240V				

Model No. (YP)	10001	20001	30001	40001	50001
Max. Capacity (g)	1000	2000	3000	4000	5000
Tare Range (g)	0-1000	0-2000	0-3000	0-4000	0-5000
Readability	0.1				
Pan Size (mm)	143*192mm				
Dimensions (LxWxH)	280x180x80mm				
Power supply	AC 110-120V/220-240V				

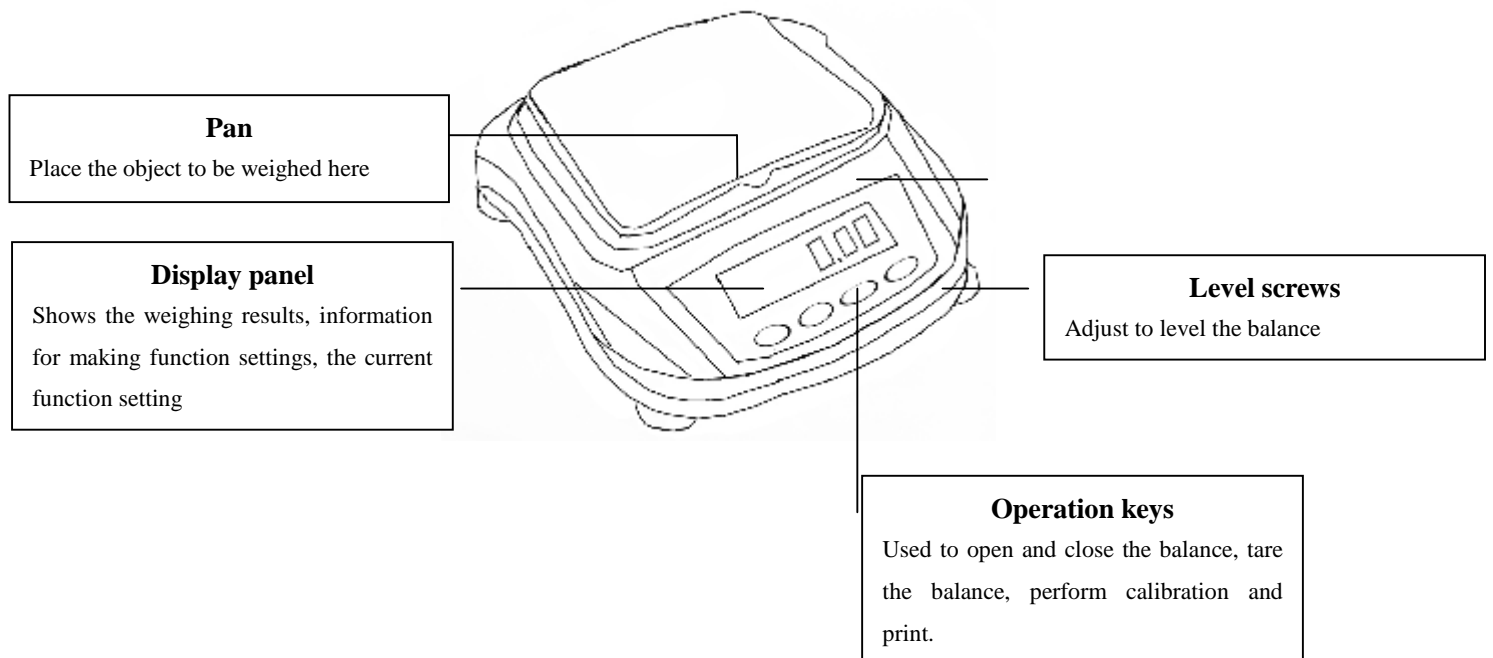
Model No. (YP)	2002	3002	5002	6002	10002	20002
Max. Capacity (g)	200	300	500	600	1000	2000
Tare Range (g)	0-200	0-300	0-500	0-600	0-1000	0-2000
Readability	0.01					
Pan Size (mm)	133*182mm					
Dimensions (LxWxH)	280x180x80mm					
Power supply	AC 110-120V/220-240V					

Operating Temperature Range: 5-35 Degree Centigrade

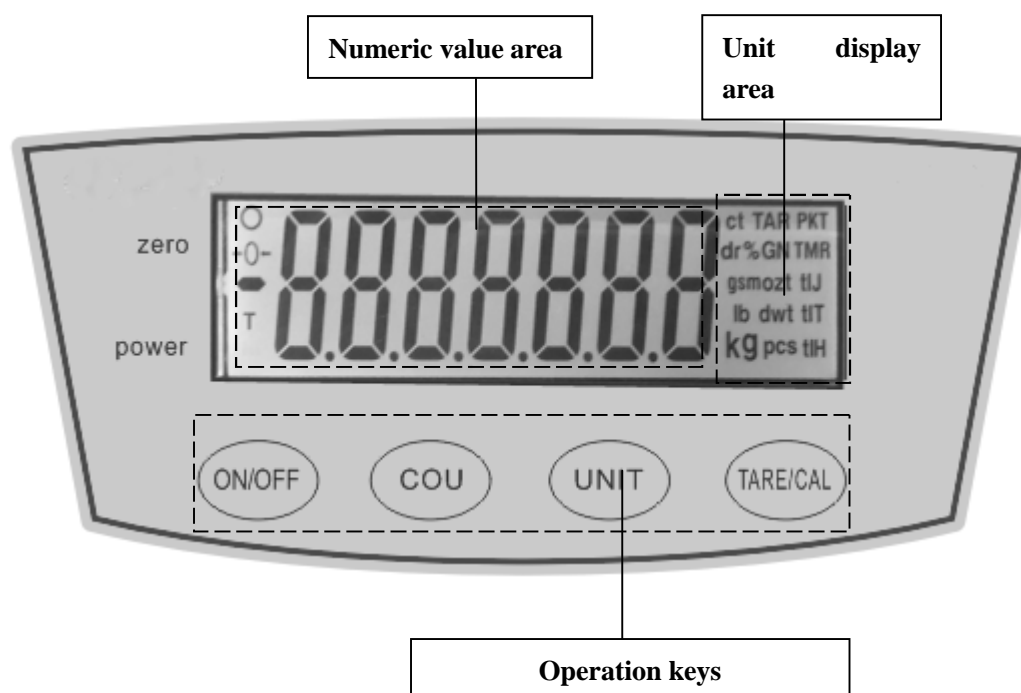
Moisture: 50-85%

# 1 BEFORE WEIGHING

## Main body



## Name and Function of the Components



## Operation Keys

Key	During Weighing	
	Press once and Release	Press and hold for a while
ON/OFF	Turn on or turn off the balance	—
COU	Select the counting function	—
TAR/CAL	Tare the balance(setting it to zero)	Performs calibration
UNIT	Select the unit	—

## Choosing the Installation Site

The measuring performance of the balance is greatly influenced by the environment where it is installed.

Observe the following points to ensure safe and accurate weighing.

## Caution



Prohibitions

**Do not use the balance anywhere exposed to explosive, combustible or corrosive gases.**

This could cause fire or trouble.





#### Instructions

### **Use the correct power supply and voltage with the balance.**

Using an incorrect power supply or voltage with the balance will lead to fire or trouble with the balance.

Note also that if the power supply or voltage is unstable or if the power supply capacity is insufficient, it will not be possible to obtain satisfactory performance from the balance.

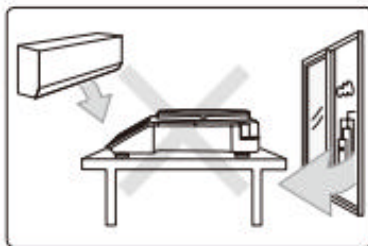
## **Precautions on Use**



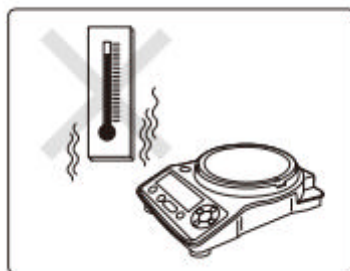
#### Prohibitions

### **Avoid locations where the balance will be exposed to any of the following.**

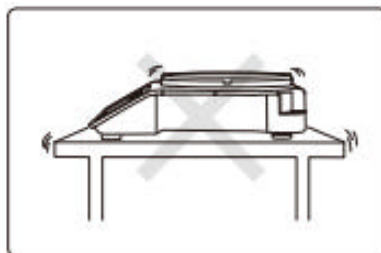
▣ Air flow from an air conditioner, ventilator, door or window



▣ Extreme temperature changes



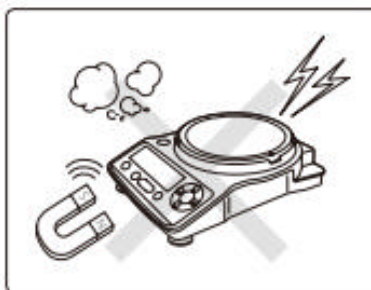
▣ Vibration from surroundings or nearby equipment



⌘Direct sunlight



⌘Dust, electromagnetic waves or a magnetic field



Instructions

**Install the balance on a strong and stable flat table or floor.**

Placing the balance in an unstable site could lead to injury or trouble with the balance. When selecting the installation site, take into account the combined weight of the balance and the item to be weighed.

## Unpacking and Delivery Inspection

Check that all of the items indicated below are included in the package, and that nothing has been damaged.

- [1] Main Body
- [2] Pan
- [3] Introduction Manual
- [4] Adapter

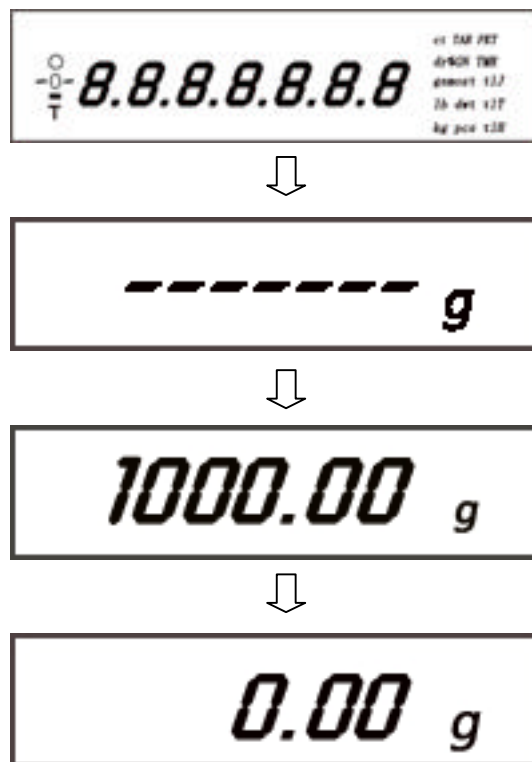
### Turning the Power On

1 Insert the plug of the Power Cord into the DC IN connector on the back of the balance.

2 Connect the Power Cord to the power outlet.

3 Press “ON”.

The display will automatically go through the changes indicated below.



### Warming Up

Before performing span calibration on the balance or measuring its accuracy, you must ensure that it is in a stable state.

When stabilizing the balance, it is important that its temperature is stable.

Putting the balance in weighing mode and leave it with the power on for at least half an hour in advance of calibration.

This is called “warming up”.

### Performing Span Calibration

Always perform span calibration for a balance after moving it. Weights are required for external calibration balances.

Before performing span calibration, warm up the balance in advance.



Also, carry out the adjustment at a location where there are few people moving around and there is no air flow or vibration.

**1 Press “CAL”**

The weight value will flash.

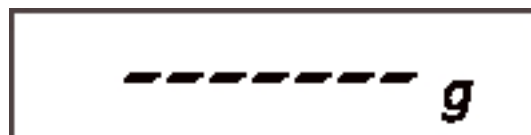
The calibration record is being output. When the output has finished, span calibration will start automatically

**2 Place the calibration weight on the pan.**

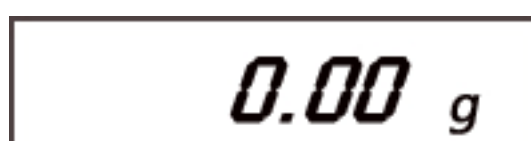
Wait until the flashing weight value display changes to a steady 500.00.

**3 Take the weight off the pan.**

“0.00” will be displayed and the balance will return to the weighing mode



when the display shows the weight figure, remove the weight



Calibration completed

## USING THE BALANCE

- 1 Enter the weighing mode
- 2 Place a container on the pan.
- 3 Once the display has stabilized, press “zero/tar”.  
The indication changes to zero.
- 4 Insert the sample into the container.
- 5 When the display has stabilized, (the stability mark) lights up, read the display.

## Selecting the Display

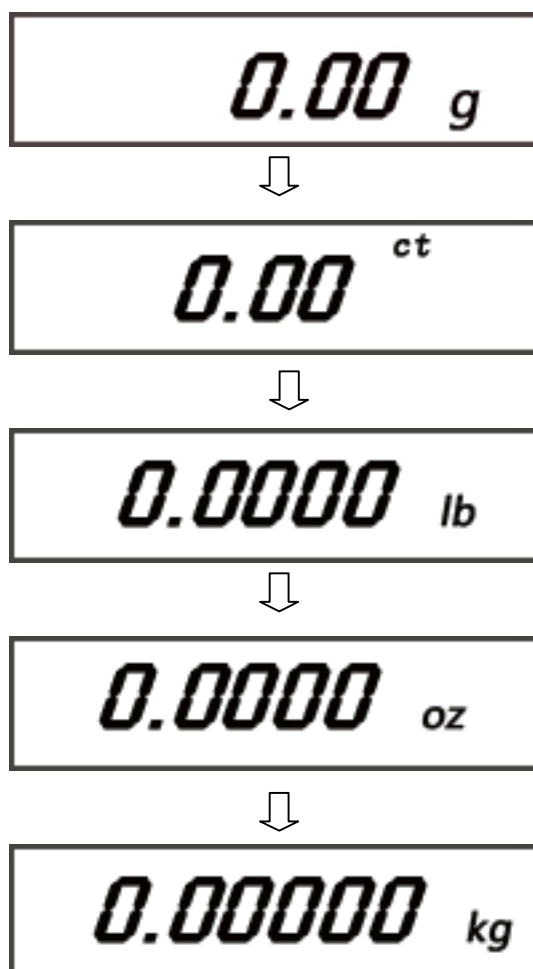
### Switching Units

You can display different units from among those set to be available.


1 press “UNIT” in the weighing mode.

Repeatedly pressing this key will cycle you through the registered units.


19 units to choose from: g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ, mo, dwt, oz, lb, tIT, ozt, tIH, %.




## Piece Counting


- Press“COU”button, the display shows ;
- Put on 10pcs objects on the pan (objects size, shape, weight need to be the same, deviation <5%, and each pc weight >d)
- Press“COU”button again, wait for the figure on the display is stable, scale starts piece counting mode.
- Press“COU”button under piece counting mode, exit piece counting mode.

## Overload



When the weight of object exceed the max capacity of scale, the display will shows , remove the object immediately, to prevent the damages to the scale.

## Low Battery Indication

Press“COU”and hold on, till the scale skips piece counting procedure, when display shows , scale enter in low battery mode setting, “off” will be shown on the display all the time.

Then press“COU”, display shows , short press “TARE/CAL”several times until the screen shows 0.00g. low battery mode start. (1 for 1second) when scale pan without object and the figure back to “0”, display will shut up after 1 second.

## Baud rate setting (232 interface)

Press“PCS”and hold on, till the scale skips piece counting procedure, when display shows , Press “TAR” button till display shows , press “PCS” button to set BRS.

C3-2----BRS 2400


C3-3----BRS 4800

C3-4----BRS 9600

C3-5----BRS19600

After selection short press “TARE/CAL” several times until the screen shows 0.00g to complete the setting.

## Print setting

Press“COU”and hold on, till the scale skips piece counting procedure, when display shows , Press “TAR” button till display shows



, press "COU" button to set print mode.

C5-0----continuous printing

C5-2----key printing

C5-3----command printing (connect with computer)

After selection short press "TARE/CAL" several times until the screen shows 0.00g to complete the setting.

### **TARE FUNCTION**

- 1, put the empty container on the weighing pan,
- 2, when the displayed number does not move, short press the "TARE /CAL" key to get "0".
- 3, Load the object/liquid to be weighed into the container.
- 4, put back on the scale, then get the net weight.