

# **YP Series Precision Balance**

# **User Manual**



Please read operating manual before installation and operation.

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**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%

**Features**

- High Precision Loadcell
- Rugged Plastic Housing
- Big size Stainless Steel Platter
- High contrast easy to read LED display
- Built-in rechargeable battery
- Height adjustable feet
- Full Capacity Substraction
- Fast response
- Overload Protection
- Below Balance Weighing Facility
- Selectable measure units, g, oz, ct, lb
- Checking Weighing, Piece counting function

## **ASSEMBLING**

- Unpack the package, put the platter on the top of the loader.
- Put the balance on a steady flat surface away from vibration, direct sunshine, air blow or strong magnetic disturbance.
- Battery locker is at the bottom of the balance, switch the locker to  to turn on the balance, please switch the locker to  during moving or transportation

## **TURN ON THE BALANCE**

Connect the balance to power supply, keep the switch in the ON(-) status.

Press function key ON/OFF to turn on the balance, the balance will in turns display following figures,


8.8.8.8.8.8.

Battery Voltage U=

Maximum capacity

-----

Finally the balance stays in a standby state of showing 0g, 0.0g or 0.00g in the display

**Notice:** the lasting time of ----- will be decided by the stability of the loadcell, thus, the balance must not be located in an unstable surface or in the wind blow. If  flashes in the display, it means the balance is not in a stable condition, calibration and counting operations is not allowed.

## **CALIBRATION**

- The purpose for this operation is to calibrate the balance so as to achieve the best performance in case there is obvious tolerance error in weighing or the balance is located in different gravity due to different latitude.
- it is suggested to warm up the balance over half an hour before calibration.
- Remove all loads from the platter, press function key **TARE** to clear the readings to 0g, 0.0g or 0.00g.
- Press and hold function key **CAL** for 3 seconds, release function key **CAL** when “---CAL---” is shown in the display, a figure of standard weight will flash in the display, put a standard weight on the platter accordingly, standby state “-----” will be shown in the display for a few seconds before the standard weight figure is shown in the display, remove the weight, “-----” standby state will remain for a few seconds before the balance enter stable weighing mode, showing 0g, 0.0g or 0.00g.
- It is recommended to make the operations twice to achieve the best calibration result.

### **WEIGHING**

When the balance is warmed up and calibrated, 0g,0.0g or 0.00g is shown in the display indicating weighing mode, put the object on the platter, when stable, the weight of the object is shown in the display.

### **TARING**

When a loader is put over the platter, its weight is shown in the display, press function key **TARE**, 0g, 0.0g or 0.00g will be shown in the display, indicating the weight of the loader is deducted, put the object into the loader, when stable, the figure shown in the display is the weight of the object.

### **PIECE COUNTING**

Remove all loads from the platter, press function key **TARE** to clear the readings in the display, press function key **COU** to enter counting mode, figure 10(default sampling quantity) will be shown in the display, weighing unit changes from **g** to **pcs**, put 10 samples on the platter, press function key **COU**, the balance will show "----" before it shows 10 pcs in the display, the balance enters counting mode.

**Notice:** In counting mode, the weight of the sampling objects should be even, the weight of the individual sample should not be less than the division of the balance.

**Return to Weighing Mode:** Press function key **COU** to return to Weighing mode.

### **Unit Conversion**







Press function key **UNIT** to change from weighing unit ct/oz/lb/g, default weighing unit is set to g.

### **POWER SAVING MODE**

Press and hold function key **COU** for 3 seconds, **OFF** will appear in display, press function key **COU** once, **ON** will appear in display, press function key **COU** again, 0, 0.0 or 0.00g will show in the display, the balance enters power saving mode, the balance will enter standby state in 10 seconds.

Make the same operation to exit power saving mode

### **CHARGE THE BALANCE**

- When  flashes in the display, charging is required.
- When  flashes once and  flashes once, charging in progress
- When  flashes twice and  flashes once, charging completed
- The balance cannot be turned on or auto power off in charging mode, please switch the battery locker to  position.

### **OVERLOAD**

The weight of the objective cannot exceed the rated maximum capacity of the balance, when exceeding, “-----” will be shown in the display, remove the objective immediately from the platter so as to prevent damages to the balance.

### **TIPS**

- Warming up is necessary before any operation to the balance.
- In TARE mode, the value of the tare cannot exceed the maximum capacity of the balance
- Calibration is necessary to ensure a reliable weighing.
- Switch off the balance when it is not used.
- It is suggested to turn the round platter clockwise before take it off the balance
- It is suggested to charge the battery every 3 months when it is not in regular use.

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