

**METRIA**

OPERATING  
MANUAL  
PRECISION BALANCE

YPB MODELS

# PRECISION BALANCE



This manual should be available to all users of this equipment.

For best results and maximum durability of the device, carefully read and follow all the instructions.

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Note: According to the applicable legislation regarding “Non- automatic weighing instruments” in which balances are included, by means of writ dating from the 22nd of October, 1994 (BOE 1/3rd/95), these balances must not be used for:

- Commercial transactions
- Calculating taxes, tariffs, rates, indemnities, and other similar canons
- Judicial surveys
- Pharmaceutical medicine preparations, as well as analysis made in medical or pharmaceutical laboratories
- Determining the price or total amount in sale price



**Instructions on environmental protection: Electrical and electronic equipment marked with this symbol may not be disposed of in landfills. In accordance with Directive 2002/96 / EC, users in the European Union of electrical and electronic equipment have the opportunity to return the instrument for disposal to the distributor or manufacturer of the equipment after purchasing one. new. Illegal disposal of electrical and electronic equipment is punishable by administrative fine.**

## I. Getting Started

Thank you for choosing a **METRIA** Balance. We hope you enjoy your purchase. Please maintain the equipment according to all instructions within the manual.

This product was developed according to CE marking regulations while emphasizing aesthetics and safety for the user. It has ISO9001 certification. The high quality of the product, coupled with proper user care, should allow you to enjoy the product for years.

Improper use of this equipment can cause accidents, including but not limited to: electric discharges, circuit breaker malfunctions, fire, etc. Please read the maintenance section, where this is fully explained.

**FOR BEST RESULTS AND LONGEVITY IN PRODUCT EFFICACY, READ THROUGH THIS MANUAL BEFORE USING THE PRODUCT**

Please bear in mind the following:

- This manual should be kept with the balance, so it is available to all users.
- Be careful when handling the balance. Avoid any sudden movements and dropping the device, nor drop any heavy/sharp objects on it. Keep liquids away from the balance to avoid spills.
- Never disassemble the device, this could ruin the balance, and voids the product warranty. There is also a risk of injury when disassembling the device.
- To prevent fire and electrical issues, avoid dusty or overly dry environments. In case of electrical issue or fire, unplug the balance immediately.
- During the setup, installation and use, contact your wholesaler with any questions that may arise.
- This equipment is protected under the Warranties and consumer goods regulation (10/2003)
- Overhaul is not covered by the equipment warranty
- Changes made to the product by non-certified individuals will result in a loss of the product warranty
- Accessories, including their loss, are not covered by the product warranty, neither the cover deterioration over the course of time.
- Keep your invoice, either for having the right to a warranty, or for asking for warranty coverage. Manufacturer reserves the right to modify or improve the manual or equipment.



ALWAYS MAKE SURE YOU CALIBRATE YOUR SCALE BEFORE USING

### **FEATURES**

- High precision loadcell
- Resistant plastic housing
- LCD display
- Height-adjustable feet
- Overload protection
- Checking weighing, piece counting function
- RS232 Interface

**ATTENTION!!** The maintenance and cleaning of the equipment are very important for its correct operation and durability

## **VI. Maintenance and Cleaning**

To get the best results and for product longevity, ensure to follow the suggestions below.

**Note:** All of the suggestions and guidelines mentioned below and throughout this manual will only be effective with continuous and careful maintenance of the equipment

- Follow all processes outlined in the manual
- Make the manual available to all users of the equipment
- Prevent the balance from any sudden movements or falls, as well as from direct sunlight or airflow. The balance is a precision instrument and must be handled carefully
- Balance must be plugged into a grounded electrical outlet and the socket should be easily accessible to unplug in case of emergency
- Never unplug the balance by pulling on the wire, do so from the base
- Never use the balance in a wedged-in location, such as a shelf
- Never use other objects such as pens, pencils, etc. to press the buttons on the control panel; use only your fingers
- Never place anything on the pan heavier than the maximum capacity of the balance, or the sensor could be damaged
- Do not submerge the balance, nor spill any liquids on it
- If any liquid gets in contact with the electrical parts of the balance, immediately disconnect it and send it in for service to be checked and adjusted if necessary
- Always use only original components and supplies. Other devices and parts, can be apparently similar, but can damage the equipment.

### **Cleaning**

- Never use scourers or substances that can damage metallic parts. This includes, but is not limited to, stainless steel, aluminum, coatings, etc. These can damage the balance and lead to early erosion of effectiveness of the device.
- Use a lint-free cloth, dampened with soapy water, that does not contain any abrasive surfaces, nor corrosive materials

## Calibration

1. Press TARE/CAL key; the value of the necessary weight will flash on display
2. Put the calibration weight on the pan. Wait until the value of the calibration weight stops flashing and is fixed on the display (e.g.100.00g,200.00g, etc., depending on the model)
3. Remove the weight from the pan
4. The balance will enter weighing mode and will display 0.000g.  
**Note:** Each balance under 1 kg of capacity includes the necessary weight to complete the external calibration.

## Tare function

1. Put the receptacle on the weighing pan; its weight will be displayed
2. Press TARE/CAL key and the reading on the display will automatically be set to 0.00g; tare is complete
3. If the receptacle is removed from the pan, the corresponding weight, with negative value will be displayed.
4. Press the TARE/CAL key again and the value on display will be set to zero again

## Weighing unit selection

Press UNIT key to select the desired weighing unit from g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ, mo, dwt, oz, lb, tIT, ozt, tIH, %

## Piece counting function

1. Press the COU button
2. Press the TARE/CAL button repeatedly to cycle through different counts. This function can be used with counts of 10, 20, 50, 100, 150, 200, 250, or 500 pieces.
3. Put the corresponding number of pieces on the pan, press the PCS button to confirm.
4. Remove the pieces from the pan and the balance is ready to be used in piece counting mode.
5. To return to weighing mode, simply press the COU button again.

## RS232 Interface

Balance (9 pins) Printer/ PC (9 pins)

RXD(Input) 2.....3  
(Output) 3.....2  
(Ground) 5.....5

- The default Baud Rate is 9600 bps
- The data format is: 10 bits; 0 as start bit, 1 as stop bit, 8 digits (ASCII code)
- No odd and even numbers

adjustments Data output format:

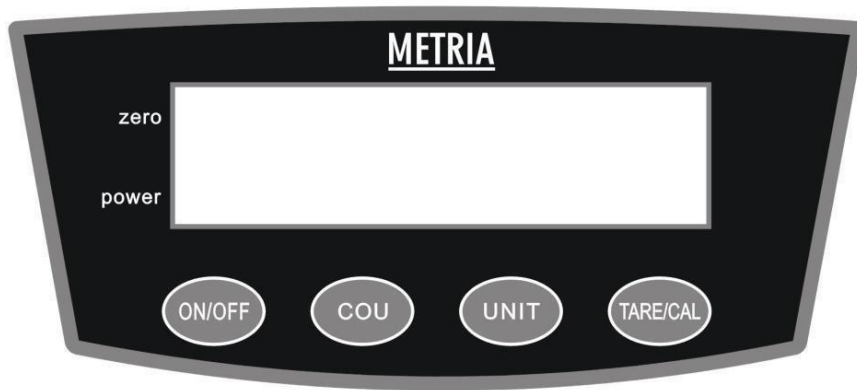
1	2	3	4	5	6	7	8
Type	Space	Space or *	±	Data	Data	Data	Data
9	10	11	12	13	14	15	16
Data	Data or dot	Data or dot	Data	Unit 1	Unit 2	End	Return

## II. Specifications

### Technical Parameters:

Model YPB	600-001	3K0-001	5K0-001
Capacity	0-600 g	0-3Kg	0-5Kg
Readability	0.1 g	0.1 g	0.001 g
Repeatability	± 0.2 g		±0.05
Linearity	± 0.2 g		±0.05
Pan size	128 X 157 mm	145 X 205 mm	
Dimensions	225* 220 *80 mm		
Net weight	2000 g		
Output	110/220-240 V		

### III. Panel Description



#### Panel Explanation

1. ON/OFF: Turns device on and off
2. UNIT :kg,ct,T,TAR,dr,PKT,GN,TMR,gsm, tIJ, mo, dwt, oz, lb, tIT, ozt, tIH, %,g
3. COU: Piece countingmode
4. TARE/CAL:Tare the balance/ Calibration key

### IV. Installation

#### Choosing the installation location

The location should meet the following conditions:

1. Work room should be clean and dry
2. Balance should be placed on a solid, stable, plain flat surface
3. Avoid locations in which the balance could be exposed to any of the following:
  - a. Airflow from air conditioners, fans, doors, or windows
  - b. Vibrations from surrounding or nearby equipment
  - c. Direct sunlight or radiation
4. Do not use the balance anywhere exposed to explosive, combustible, or corrosive gases.
5. Do not use the balance in areas with high humidity or high levels of dust
6. Keep the balance clean.
7. Do not leave material on the balance when not in use.

#### Unpacking and inspection

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

- Balance
- Weight
- Power Cable
- Manual

In case the balance or any component is damaged during transport, tell your transportation agent immediately in order to process claims within the proper timeframe.

### V. Using the Balance

#### Start

1. Connect the balance to the power supply and press ON key on the panel. Wait 30 minutes after powering on for best performance.
2. After warming up, calibrate the balance.
3. After calibration, the balance will enter weighing mode
4. To turn the balance off, press the OFF key on the panel and the display will shut off. If the balance will be unused for an extended period of time, disconnect it from the power supply