

Reaching Worldwide



- ◆ Semi Micro Balance
- ◆ Analytical Balance
- ◆ Moisture Analyzer
- ◆ High Precision Balance
- ◆ Crane Scale
- ◆ Density Kit
- ◆ Weights - E1, E2, F1

Part 1  
Weighing & Weights

## PRODUCT CATALOGUE



## Analytical Balance -Touch Screen

-  EMFC Electro Magnetic Force Compensation
-  Touch Screen display
-  Percentage Weighing
-  Multiple Weighing Units
-  Density Determination Function
-  RS232C Interface
-  Counting Weighing mode
-  Underhook Weighing
-  Calibration with Internal weight
-  Time
-  Date



## Analytical Balance -Touch Screen

| SPECIFICATIONS | MODEL                            | MAB 220T (Touch screen)                              |
|----------------|----------------------------------|------------------------------------------------------|
|                | Max. ( Capacity )                | 220 g                                                |
|                | Readability ( d )                | 0.0001 g                                             |
|                | Repeatability ( $\pm$ )          | 0.2 mg                                               |
|                | Linearity ( $\pm$ )              | 0.4 mg                                               |
|                | Min. (Capacity)                  | 10 mg                                                |
|                | Verification Scale Intervals (e) | 1 mg                                                 |
|                | Calibration                      | Motorized Internal Calibration                       |
|                | Class                            | Class I                                              |
|                | Display                          | 5 inch Touch Screen                                  |
|                |                                  |                                                      |
|                | Response Time                    | 4 - 5 Sec                                            |
|                | Pan Size (mm)                    | 80 mm                                                |
|                | Tare Range                       | Full                                                 |
|                | Operating Temperature            | $\pm 15^{\circ}\text{C}$ to $\pm 25^{\circ}\text{C}$ |
|                | Sensitivity Drift $\pm$          | 2ppm / $^{\circ}\text{C}$                            |
|                | Density                          | Function Available                                   |
|                | Key Sound                        | Yes                                                  |
|                | Weighing Chamber                 | 240 x 190 x 265 mm                                   |
|                | Unit                             | g, mg, ct, oz                                        |
|                | Baud rate Options                | 1200, 2400, 4800, 9600                               |
|                | Interface                        | RS232C                                               |
|                | Power Supply                     | AC 220V / 50-60 Hz                                   |
|                | Dimension (LxWxH) mm             | 475 x 315 x 485                                      |
|                | Weight                           | 10 Kg                                                |
|                |                                  |                                                      |
|                |                                  |                                                      |

★ Specifications are subject to change without notice.

Density Determination Kit for solid samples available - optional



### Standard Accessories

Instrument  
Draft ring  
Pan  
Pan support  
Dust guard  
Adaptor  
User manual

**HPB SERIES - 1 mg**

## High Precision Balance



Electro Magnetic Force Compensation



Density Determination



Underhook Weighing



RS232C Interface



External Calibration



Counting Weighing mode



LCD display



Percentage Weighing



Multiple Weighing Units



TARE



## High Precision Balance

| SPECIFICATIONS | MODEL                   | HPB 201                      | HPB501 | HPB 1001 |
|----------------|-------------------------|------------------------------|--------|----------|
|                | Capacity                | 220 g                        | 520 g  | 1020 g   |
|                |                         |                              |        |          |
|                | Readability             | 0.001 g ( 1mg )              |        |          |
|                | Repeatability ( ± )     | 0.001 g                      |        |          |
|                | Linearity ( ± )         | ± 0.002 g                    |        |          |
|                | Min.(Capacity)          | 0.1 g                        |        |          |
|                | Display                 | LCD                          |        |          |
|                | Pan Size                | 80 mm Ø                      |        |          |
|                | Response Time           | 4- 5 Sec                     |        |          |
|                | Calibration             | Automatic External           |        |          |
|                | Tare Range              | Full                         |        |          |
|                | Operating Temperature   | 15°C to 30°C                 |        |          |
|                | Density                 | Yes                          |        |          |
|                | Unit                    | g,ct, ozt, oz, GN, dwt, lb   |        |          |
|                | Key Sound               | Yes                          |        |          |
|                | Weighing Chamber Height | 195 mm                       |        |          |
|                | Baudrate                | 1200, 2400, 4800, 9600       |        |          |
|                | Class                   | I                            |        |          |
|                | Interface               | RS232C                       |        |          |
|                | Data Output Mode        | Command and continous Output |        |          |
|                | Power Supply            | AC 220V / 50-60 Hz           |        |          |
|                | Dimension (LxWxH) mm    | 220 x 360 x 345 mm           |        |          |
|                | Weight                  | 10 kg                        |        |          |
|                |                         |                              |        |          |
|                |                         |                              |        |          |

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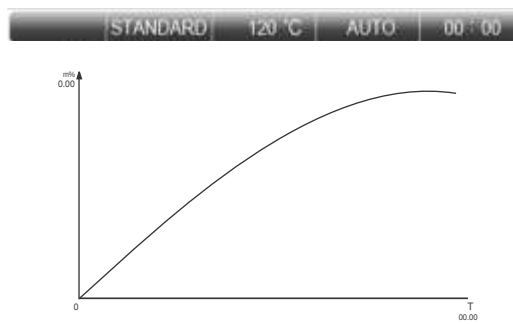
Density Determination Kit for solid samples available - optional



## MOISTURE ANALYZER

### Salient Features

- Halogen Light Heating
- Curve (Graph)
- Temperature and time can be set
- The percentage of Moisture content
- The percentage of dry residual
- Touch Screen
- Store historical setting
- Loadcell Sensor



#### MOISTURE DETERMINATION (1)

Machine Type : PGB 1MB  
 Heating Mode : STANDARD  
 Stop Mode : AUTO STOP  
 Heating Temp. : 130°C  
 Elapsed Time : 03:25  
 MW : 2.056g  
 DW : 1.933g  
 Moisture : 5.98%M  
 Date : 2017-10-17  
 Time : 08:16:14



### STANDARD ACCESSORIES

The sample pan holder,  
 Tray handle,  
 Power cord,  
 Aluminum sample pan  
 Instruction Manual

## Moisture Analyzer

| SPECIFICATIONS | MODEL                 | PGB 1MB            |
|----------------|-----------------------|--------------------|
|                | Capacity              | 110g               |
|                |                       |                    |
|                | Readability           | 0.001 g ( 1mg )    |
|                | Repeatability ( ± )   | 0.001 g            |
|                | Linearity ( ± )       | 0.002 g            |
|                | Display               | Touch Screen       |
|                | Pan Size              | 90 mm Ø            |
|                | Sensor                | loadcell           |
|                | Calibration           | Automatic External |
|                | Operating Temperature | 5°C to 35°C        |
|                | Heating Source        | Halogen lamp       |
|                | Temp. Sensor          | PT - 100           |
|                | Temperature Setting   | 40 ~199            |
|                | Temp. Step            | 1°C                |
|                | Time Setting          | 1~99 minutes       |
|                | Dry Readability       | 0.01%              |
|                | Dry Range             | 100.00% ~ 0.00%    |
|                | Curve                 | Yes                |
|                | Alluminium Sample PAN | Available          |
|                | No. of Storage        | 20                 |
|                | Power Supply          | AC 220V / 50-60 Hz |
|                | Dimension (LxWxH) mm  | 490 x 360 x 350 mm |
|                | Weight                | 7.5 kg             |
|                |                       |                    |
|                |                       |                    |

★ Specifications are subject to change without notice.



### Salient Features

- Auto Calibration with External Weight
- Low Battery Indicator
- Multifunction Weighing Units
- Auto Zero tracking.
- Overload Protection Design
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- RS232 Interface
- In built rechargeable battery for PGB 200 only.

## Precision Balance

| SPECIFICATIONS | MODEL                 | PGB 200            | PGB 301 |
|----------------|-----------------------|--------------------|---------|
|                | Capacity              | 200 g              | 300 g   |
|                | Readability           | 0.001 g (1 mg)     |         |
|                | Repeatability ( ± )   | 0.001 g            |         |
|                | Linearity ( ± )       | 0.002 g            |         |
|                | Pan Size              | 80 mm              |         |
|                |                       |                    |         |
|                | Display               | LCD with backlight |         |
|                | Calibration           | Automatic External |         |
|                | Tare Range            | Full               |         |
|                | Operating Temperature | 10°C to 40°C       |         |
|                | Power supply          | AC 220V/ 50-60 Hz  |         |
|                | Dimension (LxWxH) mm  | 415 x 405 x 295    |         |
|                | Weight                | 5.7 kg             |         |

★ Specifications are subject to change without notice.



#### Salient Features

- ✦ Low Battery Indication
- ✦ Auto Calibration with External Weight
- ✦ Multifunction Weighing Units
- ✦ Auto Zero tracking
- ✦ Overload Protection Design
- ✦ S.S. Weighing Pan, Level indicator, Adjustable Fit
- ✦ High Resolution, Quick Weighing, Accurate Result
- ✦ In built rechargeable battery for continues use.

## Precision Balance

### PGB 220 & 321

| SPECIFICATIONS | MODEL                 | PGB 220             | PGB 321 |
|----------------|-----------------------|---------------------|---------|
|                | Capacity              | 200 g               | 300 g   |
|                | Readability           | 0.001 g (1 mg)      |         |
|                | Repeatability ( ± )   | 0.001 g             |         |
|                | Linearity ( ± )       | 0.002 g             |         |
|                | Pan Size              | 90 mm               |         |
|                |                       |                     |         |
|                | Response Time         | 3 - 4 Sec           |         |
|                | Calibration           | Automatic External  |         |
|                | Display               | LCD with back light |         |
|                | Tare Range            | Full                |         |
|                | Operating Temperature | 10°C to 40°C        |         |
|                | Power supply          | AC 220V / 50-60 Hz  |         |
|                | Dimension (LxWxH) mm  | 360 x 260 x 355     |         |
|                | Weight                | 3.5 kg              |         |

★ Specifications are subject to change without notice.



## Precision Gold Balance

### Salient Features

- ✦ Auto Calibration with External Weight.
- ✦ Low Battery Indicator.
- ✦ Multifunction Weighing Units.
- ✦ Auto Zero tracking.
- ✦ In built rechargeable battery for continues use.
- ✦ Overload Protection Design.
- ✦ S. S. Weighing Pan, Level indicator, Adjustable Fit.
- ✦ Front RED LED display
- ✦ Automatic switch off. option
- ✦ RS232 Interface.

| SPECIFICATIONS | MODEL                 | PGB 600            | PGB 1000 |
|----------------|-----------------------|--------------------|----------|
|                | Capacity              | 600 g              | 1000 g   |
|                | Readability           | 0.01 g (10 mg)     |          |
|                | Repeatability ( ± )   | 0.01 g             |          |
|                | Linearity ( ± )       | 0.02 g             |          |
|                | Pan Size              | 120 Ø mm           |          |
|                |                       |                    |          |
|                | Display               | RED LED            |          |
|                | Calibration           | Automatic External |          |
|                | Tare Range            | Full               |          |
|                | Operating Temperature | 10°C to 40°C       |          |
|                | Power Supply          | AC 220V / 50-60 Hz |          |
|                | Dimension (LxWxH) mm  | 360 x 230 x 140    |          |
|                | Weight                | 2.5 kg             |          |

★ Specifications are subject to change without notice.



### Salient Features

- ✦ Green LED, Front & Back display
- ✦ Auto Calibration with External Weight.
- ✦ Low Battery Indicator.
- ✦ Multifunction Weighing Units.
- ✦ Auto Zero tracking.
- ✦ In built rechargeable battery for continues use.
- ✦ Piece counting function
- ✦ RS232 Interface.

## Precision Gold Balance

| SPECIFICATIONS | MODEL                 | PGB 630            | PGB 1030 |
|----------------|-----------------------|--------------------|----------|
|                | Capacity              | 600 g              | 1000 g   |
|                | Readability           | 0.01 g (10 mg)     |          |
|                | Repeatability ( ± )   | 0.01 g             |          |
|                | Linearity ( ± )       | 0.02 g             |          |
|                | Pan Size              | 120 Ø mm           |          |
|                |                       |                    |          |
|                | Display               | GREEN LED          |          |
|                | Calibration           | Automatic External |          |
|                | Tare Range            | Full               |          |
|                | Operating Temperature | 10°C to 40°C       |          |
|                | Power Supply          | AC 220V / 50-60 Hz |          |
|                | Dimension (LxWxH) mm  | 330 x 240 x 120    |          |
|                | Weight                | 2.2 kg             |          |

★ Specifications are subject to change without notice.



with Glass Windshield

## Precision Gold Balance

### Salient Features

- Glass Windshield
- Auto Calibration with External Weight
- Low Battery Indicator
- Multifunction Weighing Units
- In built rechargeable battery for continues use
- Auto Zero tracking
- Overload Protection Design
- Front RED LED display
- Automatic Switch Off Option
- High precision loadcell sensor
- RS232 Interface

| SPECIFICATIONS | MODEL                 | PGB 610            |
|----------------|-----------------------|--------------------|
|                | Capacity              | 600 g              |
|                | Readability           | 0.01 g ( 10 mg)    |
|                | Repeatability ( ± )   | 0.01 g             |
|                | Linearity ( ± )       | 0.02 g             |
|                | Pan Size              | 115 Ø mm           |
|                |                       |                    |
|                | Display               | RED LED            |
|                | Calibration           | Automatic External |
|                | Tare Range            | Full               |
|                | Operating Temperature | 10°C to 40°C       |
|                | Power Supply          | AC 220V / 50-60 Hz |
|                | Dimension (LxWxH) mm  | 325 x 260 x 350    |
|                | Weight                | 3.7 kg             |

★ Specifications are subject to change without notice.



**Thermal Printer**

### Thermal Printer

- ✦ Printing method: direct thermal
- ✦ Printing paper width: 58mm
- ✦ Valid printing width: 48mm
- ✦ Resolution 8 /mm( 203dpi)
- ✦ Points of each line : 384 points
- ✦ Printing speed:60 mm/S
- ✦ Printing density: 8 dots/mm, 384 dots/line
- ✦ Printing speed: approx. 70mm/ sec. or 20 lines/sec.
- ✦ RS232 / USB Interface
- ✦ DB25 socket (female), supports RTS/CTS protocol,
- ✦ Ports: 2400,4800,9600,19200,38400,57600,115200bps
- ✦ Power Supply - DC7.5V



**WDK-250**

### Density Determination Kit

### Density Kit

- ✦ For solid density determination
- ✦ Suitable for MAB, HPB & PGB Series
- ✦ Can use for other weighing balance also

#### STANDARD ACCESSORIES

- ✦ Beaker Base
- ✦ Beaker
- ✦ PAN stand
- ✦ Pans suspension
- ✦ Thermometer
- ✦ Upper pan stand

According to the Archimedean Principle, Solid Body immersed in a liquid apparently loses as much of its own weight as the weight of the liquid it has displaced. This makes it possible to determine the unknown value. Depending on whether the body in quotient is liquid or solid.

The international system of units specifies  $\text{Kg/m}^3$  as the unit of density. However, the unit  $\text{g/cm}^3$  is better suited to lab purpose



#### Salient Features

- ✦ Auto Calibration with External Weight
- ✦ Easy to read LCD Display with backlight
- ✦ Multifunction Weighing Units
- ✦ Auto Zero tracking, Low Battery Indicator
- ✦ Overload Protection Design
- ✦ S.S. Weighing Pan, Level indicator, Adjustable Fit
- ✦ High Resolution, Quick Weighing, Accurate Result
- ✦ RS232C Interface
- ✦ In built rechargeable battery for continues use.

## Precision Balance

| SPECIFICATIONS | MODEL                 | PGB 3010           | PGB 6000       |
|----------------|-----------------------|--------------------|----------------|
|                | Capacity              | 3000 g             | 6000 g         |
|                | Readability           | 0.01 g (10 mg)     | 0.1 g (100 mg) |
|                | Repeatability ( ± )   | 0.01 g             | 0.1 g          |
|                | Linearity ( ± )       | 0.02 g             | 0.2 g          |
|                | Pan Size              | 180 x 195 mm       |                |
|                | Display               | LCD                |                |
|                | Calibration           | Automatic External |                |
|                | Tare Range            | Full               |                |
|                | Operating Temperature | 10°C to 40°C       |                |
|                | Power supply          | AC 220V/ 50-60 Hz  |                |
|                | Dimension (LxWxH) mm  | 440 x 265 x 220    |                |
|                | Weight                | 4 kg               |                |

★ Specifications are subject to change without notice.



#### Salient Features

- Auto Calibration with External Weight
- Easy to read LCD Display with backlight
- Multifunction Weighing Units
- Auto Zero tracking, Low Battery Indicator
- Overload Protection Design
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- In built rechargeable battery for continues use.

## Precision Balance

| SPECIFICATIONS | MODEL                 | PGB 3110           | PGB 6100       |
|----------------|-----------------------|--------------------|----------------|
|                | Capacity              | 3000 g             | 6000 g         |
|                | Readability           | 0.01 g (10 mg)     | 0.1 g (100 mg) |
|                | Repeatability ( ± )   | 0.01 g             | 0.1 g          |
|                | Linearity ( ± )       | 0.02 g             | 0.2 g          |
|                | Pan Size              | 160 x 160 mm       |                |
|                |                       |                    |                |
|                | Display               | LCD                |                |
|                | Calibration           | Automatic External |                |
|                | Tare Range            | Full               |                |
|                | Operating Temperature | 10°C to 40°C       |                |
|                | Power supply          | AC 220V/ 50-60 Hz  |                |
|                | Dimension (LxWxH) mm  | 440 x 265 x 220    |                |
|                | Weight                | 4 kg               |                |

★ Specifications are subject to change without notice.



**ECB 300**



**ECB 600 / 6000**

## Economic Compact Balance

| SPECIFICATIONS | MODEL                  | ECB 300            | ECB 600         | ECB 6000 |
|----------------|------------------------|--------------------|-----------------|----------|
|                | Capacity               | 300 g              | 600 g           | 6000 g   |
|                | Readability            | 0.01 g (10 mg)     | 0.1 g (100 mg)  | 1 g      |
|                | Repeatability ( ± )    | 0.01 g             | 0.1 g           | 1 g      |
|                | Linearity ( ± )        | 0.02 g             | 0.2 g           | 2 g      |
|                | Pan Size (mm)          | 120 Ø              | 155 x 155       |          |
|                |                        |                    |                 |          |
|                | Display                | LCD                |                 |          |
|                | Calibration            | Automatic External |                 |          |
|                | Tare Range             | Full               |                 |          |
|                | Operating Temp.        | 10°C to 40°C       |                 |          |
|                | Power Supply           | AC 220V / 50-60 Hz |                 |          |
|                | Dimension ( LxWxH ) mm | 300 x 165 x 90     | 245 x 170 x 160 |          |
| Weight         | 1 kg                   |                    |                 |          |

★ Specifications are subject to change without notice.

### Salient Features

- Compact and space saving
- DC Adaptor available
- ECB 300 with draft shield
- Auto zero tracking
- Auto Calibration with External Weight
- Stable Indicator & Accurate Result.