



5Y.50.PM Precision Balance, 5Y.120.PM Precision Balance, 5Y.10.PM Precision Balance,  
5Y.35.PM Precision Balance, 5Y.15.PM Precision Balance, 5Y.25.PM Precision Balance,  
5Y.60.PM Precision Balance, 5Y.20.PM Precision Balance

More information on the website  
[radwag.com/en/info,w1,DVE](http://radwag.com/en/info,w1,DVE)



5Y.50.PM Precision Balance  
5Y.35.PM Precision Balance  
5Y.25.PM Precision Balance



5Y.120.PM Precision Balance  
5Y.60.PM Precision Balance



5Y.10.PM Precision Balance  
5Y.15.PM Precision Balance  
5Y.20.PM Precision Balance

The drawings, photos and graphics used are for illustrative purposes only.

## Functions



Autotest



Dosing



Percent Weighing



Parts counting



Peak hold



Formulation



Newton unit  
measurement



Statistics



Checkweighing



IR sensors



GLP Procedures



Animal weighing



Pipettes Calibration



Air density correction



Density determination



Differential weighing



Ambient conditions  
monitoring



Statistical Quality Control



Packaged Goods Control



ALIBI Memory



Wi-Fi



Under-pan weighing:  
- 5Y.10.PM Precision Balance  
- 5Y.15.PM Precision Balance  
- 5Y.20.PM Precision Balance  
- 5Y.25.PM Precision Balance  
- 5Y.35.PM Precision Balance  
- 5Y.50.PM Precision Balance

# Datasheet

|                                        | 5Y.10.PM Precision Balance<br>WL-224-0001                                                      | 5Y.15.PM Precision Balance<br>WL-224-0002                                                      | 5Y.20.PM Precision Balance<br>WL-224-0003                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Metrological parameters</b>         |                                                                                                |                                                                                                |                                                                                                |
| <b>Maximum capacity [Max]</b>          | 10 kg                                                                                          | 15 kg                                                                                          | 20 kg                                                                                          |
| <b>Minimum load</b>                    | 0,5 g                                                                                          | -                                                                                              | -                                                                                              |
| <b>Preload range</b>                   | 1 kg                                                                                           |                                                                                                |                                                                                                |
| <b>Readability [d]</b>                 | 0,01 g                                                                                         | 0,01 g                                                                                         | 0,01 g                                                                                         |
| <b>Verification unit [e]</b>           | 0,1 g                                                                                          | -                                                                                              | -                                                                                              |
| <b>Tare range</b>                      | -10 kg                                                                                         | -15 kg                                                                                         | -20 kg                                                                                         |
| <b>Standard repeatability [5% Max]</b> | 0,004 g                                                                                        | 0,004 g                                                                                        | 0,004 g                                                                                        |
| <b>Standard repeatability [Max]</b>    | 0,01 g                                                                                         | 0,012 g                                                                                        | 0,015 g                                                                                        |
| <b>Minimum weight (USP)</b>            | 8,2 g                                                                                          | 8,2 g                                                                                          | 8,2 g                                                                                          |
| <b>Minimum weight (U=1%,k=2)</b>       | 0,82 g                                                                                         | 0,82 g                                                                                         | 0,82 g                                                                                         |
| <b>Linearity</b>                       | ±0,025 g                                                                                       | ±0,03 g                                                                                        | ±0,03 g                                                                                        |
| <b>Stabilization time</b>              | 1 s                                                                                            | 1 s                                                                                            | 1 s                                                                                            |
| <b>Adjustment</b>                      | internal (automatic)                                                                           | internal (automatic)                                                                           | internal (automatic)                                                                           |
| <b>OIML Class</b>                      | II                                                                                             | -                                                                                              | -                                                                                              |
| <b>Physical parameters</b>             |                                                                                                |                                                                                                |                                                                                                |
| <b>Leveling system</b>                 | semi-automatic – LevelSENSING                                                                  | semi-automatic – LevelSENSING                                                                  | semi-automatic – LevelSENSING                                                                  |
| <b>Display</b>                         | 10" graphic colour touchscreen                                                                 | 10" graphic colour touchscreen                                                                 | 10" graphic colour touchscreen                                                                 |
| <b>Delivery components</b>             | Precision Balance, weighing pan, fabric dust cover, power supply.                              | Precision Balance, weighing pan, fabric dust cover, power supply.                              | Precision Balance, weighing pan, fabric dust cover, power supply.                              |
| <b>Weighing pan dimensions</b>         | 200×185 mm                                                                                     | 200×185 mm                                                                                     | 200×185 mm                                                                                     |
| <b>Packaging dimensions</b>            | 520×520×280 mm                                                                                 | 520×520×280 mm                                                                                 | 520×520×280 mm                                                                                 |
| <b>Net weight</b>                      | 12,96 kg                                                                                       | 12 kg                                                                                          | 12 kg                                                                                          |
| <b>Gross weight</b>                    | 14,2 kg                                                                                        | 14,2 kg                                                                                        | 14,2 kg                                                                                        |
| <b>Construction</b>                    |                                                                                                |                                                                                                |                                                                                                |
| <b>Protection class</b>                | IP 43                                                                                          | IP 43                                                                                          | IP 43                                                                                          |
| <b>Communication interface</b>         |                                                                                                |                                                                                                |                                                                                                |
| <b>Communication interface</b>         | 2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot                                  | 2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot                                  | 2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot                                  |
| <b>Electrical parameters</b>           |                                                                                                |                                                                                                |                                                                                                |
| <b>Power supply</b>                    | Adapter: 100 – 240V AC<br>50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,6A max;<br>10–19W* | Adapter: 100 – 240V AC<br>50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,6A max;<br>10–19W* | Adapter: 100 – 240V AC<br>50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,6A max;<br>10–19W* |
| <b>Environmental conditions</b>        |                                                                                                |                                                                                                |                                                                                                |
| <b>Operating temperature</b>           | +10 – +40 °C                                                                                   | +10 – +40 °C                                                                                   | +10 – +40 °C                                                                                   |

Repeatability is expressed as a standard deviation from 10 cycles of mass standard weighing. Stabilization time dependson the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile. \*Power consumption depends on the terminal configuration and the number and type of external devices connected.

# Datasheet

|                                        | 5Y.25.PM Precision Balance<br>WL-224-0004                                                      | 5Y.35.PM Precision Balance<br>WL-224-0005                                                      | 5Y.50.PM Precision Balance<br>WL-224-0006                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Metrological parameters</b>         |                                                                                                |                                                                                                |                                                                                                |
| <b>Maximum capacity [Max]</b>          | 25 kg                                                                                          | 35 kg                                                                                          | 50 kg                                                                                          |
| <b>Minimum load</b>                    | 5 g                                                                                            | 5 g                                                                                            | 5 g                                                                                            |
| <b>Preload range</b>                   | 2,5 kg                                                                                         | 3,5 kg                                                                                         | 5 kg                                                                                           |
| <b>Readability [d]</b>                 | 0,1 g                                                                                          | 0,1 g                                                                                          | 0,1 g                                                                                          |
| <b>Verification unit [e]</b>           | 1 g                                                                                            | 1 g                                                                                            | 1 g                                                                                            |
| <b>Tare range</b>                      | -25 kg                                                                                         | -35 kg                                                                                         | -50 kg                                                                                         |
| <b>Standard repeatability [5% Max]</b> | 0,04 g                                                                                         | 0,04 g                                                                                         | 0,04 g                                                                                         |
| <b>Standard repeatability [Max]</b>    | 0,1 g                                                                                          | 0,05 g                                                                                         | 0,15 g                                                                                         |
| <b>Minimum weight (USP)</b>            | 82 g                                                                                           | 100 g                                                                                          | 82 g                                                                                           |
| <b>Minimum weight (U=1%,k=2)</b>       | 8,2 g                                                                                          | 10 g                                                                                           | 8,2 g                                                                                          |
| <b>Linearity</b>                       | ±0,3 g                                                                                         | ±0,3 g                                                                                         | ±0,3 g                                                                                         |
| <b>Stabilization time</b>              | 1 s                                                                                            | 1 s                                                                                            | 1 s                                                                                            |
| <b>Adjustment</b>                      | internal (automatic)                                                                           | internal (automatic)                                                                           | internal (automatic)                                                                           |
| <b>OIML Class</b>                      | II                                                                                             | II                                                                                             | II                                                                                             |
| <b>Physical parameters</b>             |                                                                                                |                                                                                                |                                                                                                |
| <b>Leveling system</b>                 | semi-automatic – LevelSENSING                                                                  | semi-automatic – LevelSENSING                                                                  | semi-automatic – LevelSENSING                                                                  |
| <b>Display</b>                         | 10" graphic colour touchscreen                                                                 | 10" graphic colour touchscreen                                                                 | 10" graphic colour touchscreen                                                                 |
| <b>Delivery components</b>             | Precision Balance, weighing pan, fabric dust cover, power supply.                              | Precision Balance, weighing pan, fabric dust cover, power supply.                              | Precision Balance, weighing pan, fabric dust cover, power supply.                              |
| <b>Weighing pan dimensions</b>         | 350×260 mm                                                                                     | 350×260 mm                                                                                     | 350×260 mm                                                                                     |
| <b>Packaging dimensions</b>            | 520×520×280 mm                                                                                 | 520×520×280 mm                                                                                 | 520×520×280 mm                                                                                 |
| <b>Net weight</b>                      | 12 kg                                                                                          | 12 kg                                                                                          | 12 kg                                                                                          |
| <b>Gross weight</b>                    | 14,2 kg                                                                                        | 16 kg                                                                                          | 14,2 kg                                                                                        |
| <b>Construction</b>                    |                                                                                                |                                                                                                |                                                                                                |
| <b>Protection class</b>                | IP 43                                                                                          | IP 43                                                                                          | IP 43                                                                                          |
| <b>Communication interface</b>         |                                                                                                |                                                                                                |                                                                                                |
| <b>Communication interface</b>         | 2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot                                  | 2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot                                  | 2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot                                  |
| <b>Electrical parameters</b>           |                                                                                                |                                                                                                |                                                                                                |
| <b>Power supply</b>                    | Adapter: 100 – 240V AC<br>50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,6A max;<br>10–19W* | Adapter: 100 – 240V AC<br>50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,6A max;<br>10–19W* | Adapter: 100 – 240V AC<br>50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,6A max;<br>10–19W* |
| <b>Environmental conditions</b>        |                                                                                                |                                                                                                |                                                                                                |
| <b>Operating temperature</b>           | +10 – +40 °C                                                                                   | +10 – +40 °C                                                                                   | +10 – +40 °C                                                                                   |

Repeatability is expressed as a standard deviation from 10 cycles of mass standard weighing. Stabilization time dependson the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile. \*Power consumption depends on the terminal configuration and the number and type of external devices connected.

# Datasheet

|                                        | 5Y.60.PM Precision Balance<br>WL-224-0007                                                | 5Y.120.PM Precision Balance<br>WL-224-0009                                               |
|----------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Metrological parameters</b>         |                                                                                          |                                                                                          |
| <b>Maximum capacity [Max]</b>          | 60 kg                                                                                    | 120 kg                                                                                   |
| <b>Minimum load</b>                    | 10 g                                                                                     | -                                                                                        |
| <b>Preload range</b>                   | 6 kg                                                                                     |                                                                                          |
| <b>Readability [d]</b>                 | 0,1 g                                                                                    | 0,2 g                                                                                    |
| <b>Verification unit [e]</b>           | 1 g                                                                                      | -                                                                                        |
| <b>Tare range</b>                      | -60 kg                                                                                   | -120 kg                                                                                  |
| <b>Standard repeatability [5% Max]</b> | 0,041 g                                                                                  | 0,082 g                                                                                  |
| <b>Standard repeatability [Max]</b>    | 0,15 g                                                                                   | 0,2 g                                                                                    |
| <b>Minimum weight (USP)</b>            | 82 g                                                                                     | 164 g                                                                                    |
| <b>Minimum weight (U=1%,k=2)</b>       | 8,2 g                                                                                    | 16,4 g                                                                                   |
| <b>Linearity</b>                       | ±0,3 g                                                                                   | ±0,6 g                                                                                   |
| <b>Stabilization time</b>              | 1 s                                                                                      | 1 s                                                                                      |
| <b>Adjustment</b>                      | internal (automatic)                                                                     | internal (automatic)                                                                     |
| <b>OIML Class</b>                      | II                                                                                       | -                                                                                        |
| <b>Physical parameters</b>             |                                                                                          |                                                                                          |
| <b>Leveling system</b>                 | semi-automatic – LevelSENSING                                                            | semi-automatic – LevelSENSING                                                            |
| <b>Display</b>                         | 10" graphic colour touchscreen                                                           | 10" graphic colour touchscreen                                                           |
| <b>Delivery components</b>             | Precision Balance, weighing pan, power supply.                                           | Precision Balance, weighing pan, power supply.                                           |
| <b>Weighing pan dimensions</b>         | 400×500 mm                                                                               | 400×500 mm                                                                               |
| <b>Packaging dimensions</b>            | 710×610×240 mm                                                                           | 710×610×240 mm                                                                           |
| <b>Net weight</b>                      | 22 kg                                                                                    | 22 kg                                                                                    |
| <b>Gross weight</b>                    | 26,5 kg                                                                                  | 24,5 kg                                                                                  |
| <b>Construction</b>                    |                                                                                          |                                                                                          |
| <b>Protection class</b>                | IP 43                                                                                    | IP 43                                                                                    |
| <b>Communication interface</b>         |                                                                                          |                                                                                          |
| <b>Communication interface</b>         | 2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot                            | 2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot                            |
| <b>Electrical parameters</b>           |                                                                                          |                                                                                          |
| <b>Power supply</b>                    | Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,6A max; 10–19W* | Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,6A max; 10–19W* |
| <b>Environmental conditions</b>        |                                                                                          |                                                                                          |
| <b>Operating temperature</b>           | +10 – +40 °C                                                                             | +10 – +40 °C                                                                             |

Repeatability is expressed as a standard deviation from 10 cycles of mass standard weighing. Stabilization time depends on the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile. \*Power consumption depends on the terminal configuration and the number and type of external devices connected.

\* Wi-Fi® is a registered trademark of Wi-Fi® Alliance.



Additional fee for verification



## Accessories (Additional Fee)

MediaBox  
RFID Tags

Under-pan weighing  
RS 232, RS 485 cables

Antivibration Tables  
 Power Adapters  
 Additional modules  
 Professional Weighing Tables  
 Protective cover for balances  
 Barcode scanners  
 Balance Storage Case

RS 232, RS 485 cables  
 Protective cover for balances  
 Stands, wall mounting kits and mounting brackets  
 Receipt Printer  
 Fingerprint Reader  
 RS 232 – USB Converter

## Software (Additional Fee)

E2R System  
 RADWAG Remote Desktop

Label Editor R02  
 Scales Editor 2.1

## Device dimensions

5Y.50.PM Precision Balance, 5Y.35.PM Precision Balance, 5Y.25.PM Precision Balance





