# PS.R1 PRECISION BALANCES

CE   ISO 9001

RADWAG ®

PS.R1 series balances represent a new standard of precision balances. They **feature a new, readable LCD display** which allows a clearer presentation of the weighing result. Besides, the display has a new text information line allowing to show additional messages and data, e.g. product name or tare value.

New PS.R1 balances, like previously designed PS series balances, have pans in two possible dimensions: 128x128 mm or 195x195 mm. Balances with a smaller pan have a draft shield. They were equipped with **the system of external mass adjustment**.

PS.R2 balances feature several communication interfaces: **2 x RS 232, type A USB, type B USB and optional WiFi**. The housing is made of plastic, and the pan is made of stainless steel. The balances have a possibility to weigh products out of the pan (under hook weighing) - the load hangs under the pan.

## DATABASES IN R SERIES BALANCES

The information system is based on 5 databases, which allows for several users to work with several products databases, and the registered weighing results can be subject to further analysis.
**The data is registered in 5 databases:**
- users (up to 10 users),
- products (up to 1000 products),
- weighments (up to 5000 weighments),
- tares (up to 100 tares),
- ALIBI memory (up to 100 000 weighments).

There is two directions data exchange within the system thanks to a quick USB interface. New balances allow to import and export databases using USB pen drives.

## ALIBI memory

The used ALIBI memory is a data secure area and allows to record up to 100 000 weighment records. It ensures security of constant data register in the long time period.

**Weighing**
**Parts counting**
**Checkweighing**
**Percent setup**
**Filling**
**Summing function**
**Statistics**
**Density determination**
**Animal weighing**
**Caps lock of max indication**
**Under-hook weighing**

## Quick access to information

Direct access to functions and databases is possible from the level of keyboard.

**Database** – a direct access to databasis

**Function** - a direct access to the basic functions

**F1 to F4** – programmable function and navigation keys on the menu

## Technical data:

| | PS 200/2000.R1 | PS 110.R1 | PS 210.R1 | PS 360.R1 | PS 510.R1 | PS 750.R1 | PS 1000.R1 |
|---|---|---|---|---|---|---|---|
| | - | - | - | - | - | - | - |
| Max capacity | 200 / 2000 g | 110 g | 210 g | 360 g | 510 g | 750 g | 1000 g |
| Minimum load | 20 mg | 20 mg | 20 mg | 20 mg | 20 mg | 20 mg | 20 mg |
| Readability | 1 / 10 mg | 1 mg | 1 mg | 1 mg | 1 mg | 1 mg | 1 mg |
| Tare range | -2000 g | -110 g | -210 g | -360 g | -510 g | -750 g | -1000 g |
| Repeatability * | 1 / 10 mg | 1 mg | 1 mg | 1 mg | 1 mg | 1,5 mg | 1,5 mg |
| Linearity | ±2 / ±20 mg | ±2 mg | ±2 mg | ±2 mg | ±2 mg | ±3 mg | ±3 mg |
| Pan size | 128×128 mm | | | | | | |
| Working temperature | +10 ÷ +40 °C | | | | | | |
| Stabilization time | 2 s / 1,5 s | 2 s | | | | | |
| Sensitivity drift | 2 ppm/°C in temperature +10 ÷ +40 °C | | | | | | |
| Interface | 2 × RS 232, USB-A, USB-B, WiFi - option | | | | | | |
| Power supply** | 12 ÷ 16 V DC / 250 mA | | | | | | |
| Adjustment/calibration | external | | | | | | |
| Display | LCD (backlit) | | | | | | |
| Net weight/Gross weight | 3,5 / 5,5 kg | 3,5 / 5,5 kg | 3,5 / 5,5 kg | 3,5 / 5,5 kg | 3,5 / 5,5 kg | 3,5 / 5,5 kg | 3,5 / 5,5 kg |
| Packaging size | 470×380×336 mm | | | | | | |

\* Repeatability is expressed as a standard deviation from 10 weighing cycles.
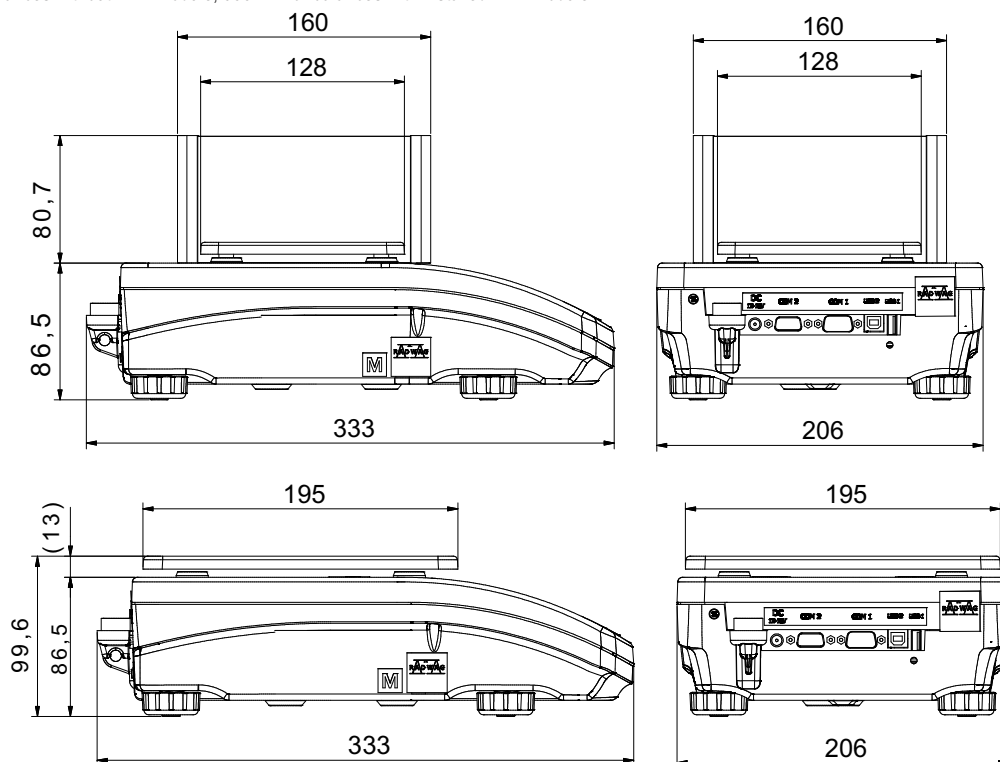
\*\* 250 mA for balances without WiFi module, 350 mA for balances with installed WiFi module

## Technical data:

| | PS 1200.R1 | PS 2100.R1 | PS 3500.R1 | PS 4500.R1 | PS 6000.R1 |
|---|---|---|---|---|---|
| | - | - | - | - | - |
| Max capacity | 1200 g | 2100 g | 3500 g | 4500 g | 6000 g |
| Minimum load | 500 mg | 500 mg | 500 mg | 500 mg | 500 mg |
| Readability | 10 mg | 10 mg | 10 mg | 10 mg | 10 mg |
| Tare range | -1200 g | -2100 g | -3500 g | -4500 g | -6000 g |
| Repeatability * | 10 mg | 10 mg | 10 mg | 10 mg | 15 mg |
| Linearity | ±20 mg | ±20 mg | ±20 mg | ±20 mg | ±30 mg |
| Pan size | 195×195 mm | | | | |
| Working temperature | +10 ÷ +40 °C | | | | |
| Stabilization time | 1,5 s | | | | |
| Sensitivity drift | 2 ppm/°C w temperature  +10 ÷ +40 °C | | | | |
| Interface | 2 × RS 232, USB-A, USB-B, WiFi - option | | | | |
| Power supply** | 12 ÷ 16 V DC / 250 mA | | | | |
| Adjustment/calibration | external | | | | |
| Display | LCD (backlit) | | | | |
| Net weight/Gross weight | 3,6 / 5,1 kg | 3,6 / 5,1 kg | 3,6 / 5,1 kg | 3,6 / 5,1 kg | 3,6 / 5,1 kg |
| Packaging size | 470×380×336 mm | | | | |

* Repeatability is expressed as a standard deviation from 10 weighing cycles.

** 250 mA for balances without WiFi module, 350 mA for balances with installed WiFi module



## Accessories:

| | |
|---|---|
| Antivibration table for laboratory balances | Bar code scanner USB HID |
| Antivibration table SAL/STONE | Power loop output AP2-1 (plastic housing) |
| Impact printer Epson | Additional LCD display "WD-6" |
| Label printer Citizen | Power adapter with battery and charger ZR-02 |
| Printer USB PCL | Mass standard |
| Density determination kit | Szafka przeciwpodmuchowa (do wag z szalką 128x128) |
| Rack for under hook weighing | USB A- USB B cable (balance - computer, balance - PLC printer) |
| "Tare" or "Print" foot button | Cable RS 232 (scale - computer) "P0108" |
| PC keyboard USB | Cable RS 232 (scale, Epson, Citizen printer) "P0151" |
| External USB memory (FAT files format) | "PW-WIN" computer software |
| Bar code scanner | "RAD-KEY" computer software |