

# PS R2.H Precision Balances

'Standard level' measurement and proper protection class intended for operation under challenging conditions



PS R2.H, d = 1 mg



PS R2.H, d = 10 mg



Hermetic external interface



Interface separated from the balance

## Functions

- |                |                  |                       |                                |                   |
|----------------|------------------|-----------------------|--------------------------------|-------------------|
| Parts counting | Percent weighing | Autotest              | Peak hold                      | Alibi memory      |
| Dosing         | Statistics       | Density determination | GLP procedures                 | Replaceable unit  |
| Checkweighing  | Animal weighing  | Under hook weighing   | Ambient conditions measurement | Multilingual menu |

## Features

### Ease of Use and Measurements Accuracy

Combination of weighing accuracy and robust design enables applying PS R2.H balances in most of the laboratory and industrial solutions.

### Resistance and Protection Under Unfavourable Ambient Conditions

The design of appropriate protection class and closing the communication interfaces in a separate hermetic housing enable operation under difficult conditions (water splash, dust, etc.).

### Perfect Readability and Clear Information Layout

Large, easy-to-read LCD display offers not only a clear presentation of the weighing result, but also enables displaying messages related to the drying process as well as pictograms of active functions and working modes.

### Quick Access to Selected Functions

Quick access keys located on the operation panel enable you to run a given function with just one click. You can assign some of the keys with a function of your choice.

### Automatic Adjustment

Internal adjustment system guarantees the highest accuracy and reliable measurements results.

### Data Management

PS R2.H information system is based on operators, products, weighings and tares databases. All saved data can be analysed, exported, imported or exchanged between weighing instruments.

### ALIBI Memory

Internal ALIBI memory guarantees safety and automatic record of measurements copies, it also offers possibility to preview, copy and archive data.

## Technical Specifications

	PS 200/2000.R2.H	PS 210.R2.H	PS 360.R2.H
Maximum capacity [Max]	200 g / 2000 g	210 g	360 g
Minimum load	0.02 g	0.02 g	0.02 g
Readability [d]	0.001 g / 0.01 g	0.001 g	0.001 g
Verification scale interval [e]	—	—	—
Tare range	-2000 g	-210 g	-360 g
Repeatability*	0.001 g / 0.01 g	0.001 g	0.001 g
Linearity	±0.002 g / ±0.02 g	±0.002 g	±0.002 g
Sensitivity temperature drift**	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$
Minimum weight (U=1%, k=2)	0.1 g	0.1 g	0.1 g
Minimum weight (USP)	1 g	1 g	1 g
Stabilization time	2 s / 1.5 s	2 s	2 s
Adjustment	internal	internal	internal
Verification	—	—	—
OIML Class	—	—	—
Display	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys	14 keys
Protection class	IP 43	IP 43	IP 43
Databases	5	5	5
USB-A	1	1	1
USB-B	1	1	1
RS 232	2	2	2
Wireless connection (option)***	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	4 W	4 W	4 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity****	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 115 mm	ø 115 mm	ø 115 mm
Weighing device dimensions	333 × 206 × 166 mm	333 × 206 × 166 mm	333 × 206 × 166 mm
Net weight	4.5 kg	4.2 kg	4.2 kg
Gross weight	6.5 kg	6.2 kg	6.2 kg
Packaging dimensions	470 × 380 × 336 mm	470 × 380 × 336 mm	470 × 380 × 336 mm

Rt net weight

\* repeatability is expressed as a standard deviation from 10 weighing cycles

\*\* parameter determined in the following temperature range: +15 ÷ +35 °C

\*\*\* optional solution on purchase order

\*\*\*\* non-condensing conditions

In accordance with type approval, the balance parameters are maintained in temperature range: +15 ÷ +35 °C.

	PS 600.R2.H	PS 750.R2.H	PS 1000.R2.H
Maximum capacity [Max]	600 g	750 g	1000 g
Minimum load	0.02 g	0.02 g	0.02 g
Readability [d]	0.001 g	0.001 g	0.001 g
Verification scale interval [e]	—	—	—
Tare range	-600 g	-750 g	-1000 g
Repeatability*	0.0015 g	0.0015 g	0.0015 g
Linearity	±0.003 g	±0.003 g	±0.003 g
Sensitivity temperature drift**	$2 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$	$2 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$	$2 \times 10^{-6} / ^\circ\text{C} \times \text{Rt}$
Minimum weight (U=1%, k=2)	0.1 g	0.1 g	0.1 g
Minimum weight (USP)	1 g	1 g	1 g
Stabilization time	2 s	2 s	2 s
Adjustment	internal	internal	internal
Verification	—	—	—
OIML Class	—	—	—
Display	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys	14 keys
Protection class	IP 43	IP 43	IP 43
Databases	5	5	5
USB-A	1	1	1
USB-B	1	1	1
RS 232	2	2	2
Wireless connection (option)***	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	4 W	4 W	4 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity****	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 115 mm	ø 115 mm	ø 115 mm
Weighing device dimensions	333 × 206 × 166 mm	333 × 206 × 166 mm	333 × 206 × 166 mm
Net weight	4.3 kg	4.3 kg	4.5 kg
Gross weight	6.3 kg	6.3 kg	6.5 kg
Packaging dimensions	470 × 380 × 336 mm	470 × 380 × 336 mm	470 × 380 × 336 mm

Rt net weight

\* repeatability is expressed as a standard deviation from 10 weighing cycles

\*\* parameter determined in the following temperature range: +15 ÷ +35 °C

\*\*\* optional solution on purchase order

\*\*\*\* non-condensing conditions

In accordance with type approval, the balance parameters are maintained in temperature range: +15 ÷ +35 °C.

	PS 1200.R2.H	PS 2100.R2.H	PS 3500.R2.H
Maximum capacity [Max]	1200 g	2100 g	3500 g
Minimum load	0.5 g	0.5 g	0.5 g
Readability [d]	0.01 g	0.01 g	0.01 g
Verification scale interval [e]	—	—	—
Tare range	-1200 g	-2100 g	-3500 g
Repeatability*	0.01 g	0.01 g	0.01 g
Linearity	±0.02 g	±0.02 g	±0.02 g
Sensitivity temperature drift**	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$
Minimum weight (U=1%, k=2)	1 g	1 g	1 g
Minimum weight (USP)	10 g	10 g	10 g
Stabilization time	1.5 s	1.5 s	1.5 s
Adjustment	internal	internal	internal
Verification	—	—	—
OIML Class	—	—	—
Display	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys	14 keys
Protection class	IP 43	IP 43	IP 43
Databases	5	5	5
USB-A	1	1	1
USB-B	1	1	1
RS 232	2	2	2
Wireless connection (option)***	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	4 W	4 W	4 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity****	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 170 mm	ø 170 mm	ø 170 mm
Weighing device dimensions	333 × 206 × 166 mm	333 × 206 × 166 mm	333 × 206 × 166 mm
Net weight	4.3 kg	4.8 kg	4.8 kg
Gross weight	5.8 kg	6.3 kg	6.3 kg
Packaging dimensions	470 × 380 × 336 mm	470 × 380 × 336 mm	470 × 380 × 336 mm

Rt net weight

\* repeatability is expressed as a standard deviation from 10 weighing cycles

\*\* parameter determined in the following temperature range: +15 ÷ +35 °C

\*\*\* optional solution on purchase order

\*\*\*\* non-condensing conditions

In accordance with type approval, the balance parameters are maintained in temperature range: +15 ÷ +35 °C.

	PS 4500.R2.H	PS 6000.R2.H
Maximum capacity [Max]	4500 g	6000 g
Minimum load	0.5 g	0.5 g
Readability [d]	0.01 g	0.01 g
Verification scale interval [e]	—	—
Tare range	-4500 g	-6000 g
Repeatability*	0.01 g	0.015 g
Linearity	±0.02 g	±0.03 g
Sensitivity temperature drift**	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$	$2 \times 10^{-6} / ^\circ\text{C} \times R_t$
Minimum weight (U=1%, k=2)	1 g	1 g
Minimum weight (USP)	10 g	10 g
Stabilization time	1.5 s	1.5 s
Adjustment	internal	internal
Verification	—	—
OIML Class	—	—
Display	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys
Protection class	IP 43	IP 43
Databases	5	5
USB-A	1	1
USB-B	1	1
RS 232	2	2
Wireless connection (option)***	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC
Power consumption	4 W	4 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity****	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	ø 170 mm	ø 170 mm
Weighing device dimensions	333 × 206 × 166 mm	333 × 206 × 166 mm
Net weight	4.8 kg	4.8 kg
Gross weight	6.3 kg	6.3 kg
Packaging dimensions	470 × 380 × 336 mm	470 × 380 × 336 mm

Rt net weight

\* repeatability is expressed as a standard deviation from 10 weighing cycles

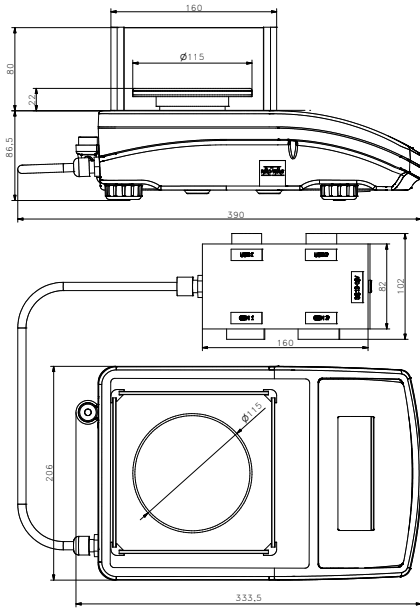
\*\* parameter determined in the following temperature range: +15 ÷ +35 °C

\*\*\* optional solution on purchase order

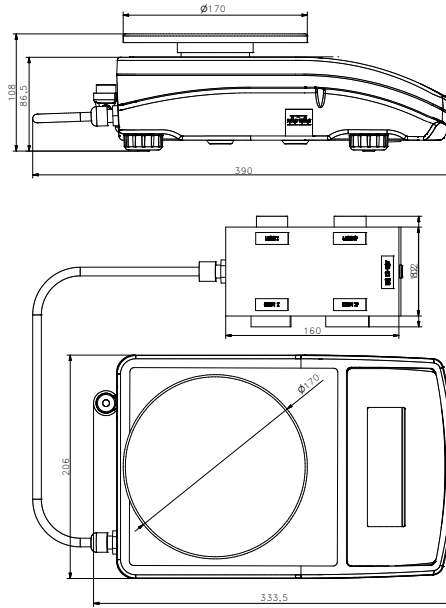
\*\*\*\* non-condensing conditions

In accordance with type approval, the balance parameters are maintained in temperature range: +15 ÷ +35 °C.

## Dimensions



PS R2.H, d = 1 mg



PS R2.H, d = 10 mg

## Accessories

### Weighing Tables

- granite antivibration table
- antivibration tables for laboratory balances

### Professional Weighing

- under-hook Weighing rack

### Peripheral Devices

- Epson dot matrix printer
- barcode scanners
- WD-6 LCD display

### Cables, Converters

- P0108: RS 232 cable (balance-computer)
- P0151: RS 232 cable (balance - Epson printer)
- USB cable type A-B
- AP2-1 power loop output

### Electrical Accessories

- ZR-02 power supply with battery

## Dedicated Software

### LabView Driver

- operation of RADWAG balances in LabView environment

### R-LAB

- collecting measurements
- carrying out statistical analysis of measurements
- customized graphs and reports

### Alibi Reader

- readout of data saved to Alibi memory
- export of data saved to Alibi memory
- data filtering and reports generating
- saving Alibi database to CSV file