

# PS.R2.H PRECISION BALANCES



release date 21-02-2014



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

**PS R2.H series balances** redefine the level of standard precision balances. Not only do they share all the features of R series balances, but can also work in adverse operating conditions (condensed dust, drops of water falling down at different angles typical for IP 54). These balances are equipped with innovative LCD display allowing for clear and legible presentation of a measurement result. Moreover, it offers new text line which supplies the user with some additional messages and information, e.g. product name or tare value.

**PS.R.H balances** are offered with round pans of two possible sizes:  $\varnothing 115\text{mm}$  and  $\varnothing 170\text{mm}$ . Balances with pans of a smaller size feature draft shield as well.

Additional asset of **PS R2.H balances** are their interfaces build-in a hermetic closed housing which is separated from the balance. The interfaces include 2xRS 232, USB type A, USB type B, and Wireless Module optionally. Balance housing is made of plastic, whereas its pan of stainless steel.

## 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.

## 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

## 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.

**Technical data:**

	PS 200/2000.R2.H	PS 210.R2.H	PS 360.R2.H	PS 600.R2.H	PS 750.R2.H	PS 1000.R2.H
Max capacity	200 / 2000 g	210 g	360 g	600 g	750 g	1000 g
Minimum load	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
Tare range	-2000 g	-210 g	-360 g	-600 g	-750 g	-1000 g
Repeatability *	1 / 10 mg	1 mg	1 mg	1 mg	1,5 mg	1,5 mg
Linearity	±2 / ±20 mg	±2 mg	±2 mg	±3 mg	±3 mg	±3 mg
Pan size	Ø 115 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, Wireless Module - option					
Power supply**	12 ÷ 16 V DC / 250 mA					
Adjustment/calibration	internal (automatic)					
Display	LCD (backlit)					
Net weight/Gross weight	4,5 / 6,5 kg	4,2 / 6,2 kg	4,2 / 6,2 kg	4,3 / 6,3 kg	4,3 / 6,3 kg	4,5 / 6,5 kg
Packaging size	470×380×336 mm					

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

\*\* 250 mA for balances without Wireless Module, 350 mA for balances with installed Wireless Module

**Technical data:**

	PS 1200.R2.H	PS 2100.R2.H	PS 3500.R2.H	PS 4500.R2.H	PS 6000.R2.H
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	Ø 170 mm				
Working temperature	+10 ÷ +40 °C				
Stabilization time	1,5 s				
Sensitivity drift	2 ppm/°C in temperature +10 ÷ +40 °C				
Interface	2 × RS 232, USB-A, USB-B, Wireless Module - option				
Power supply**	12 ÷ 16 V DC / 250 mA				
Adjustment/calibration	internal (automatic)				
Display	LCD (backlit)				
Net weight/Gross weight	4,3 / 5,8 kg	4,8 / 6,3 kg	4,8 / 6,3 kg	4,8 / 6,3 kg	4,8 / 6,3 kg
Packaging size	470×380×336 mm				

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

\*\* 250 mA for balances without Wireless Module, 350 mA for balances with installed Wireless Module

**Accessories:**

Antivibration table for laboratory balances	Bar code scanner USB HID
SAL/STONE granite laboratory bench	Power loop output AP2-1 (plastic housing)
Kafka thermal printer	Additional LCD display "WD-6"
Impact printer Epson	Power adapter with battery and charger ZR-02
Label printer Citizen	Mass standard
Printer USB PCL	USB A- USB B cable (balance - computer, balance - PLC printer)
Density determination kit	Cable RS 232 (scale - Kafka printer) "P0136"
Rack for under hook weighing	Cable RS 232 (scale - computer) "P0108"
"Tare" or "Print" foot button	Cable RS 232 (scale, Epson, Citizen printer) "P0151"
PC keyboard USB	"PW-WIN" computer software
External USB memory (FAT files format)	"RAD-KEY" computer software
Bar code scanner	