

CARAT BALANCES PS.R



release date 18-11-2016



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

PS.R 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.R 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. The balance precision and the measurement accuracy is assured by **automatic internal adjustment**, which takes into consideration temperature changes and time flow.

PS.R balances feature several communication interfaces: **2 x RS 232, type A USB, type B USB and optional Wireless Module**. 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),
- weightings (up to 5000 weightings),
- tares (up to 100 tares),
- ALIBI memory (up to 100 000 weightings).

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

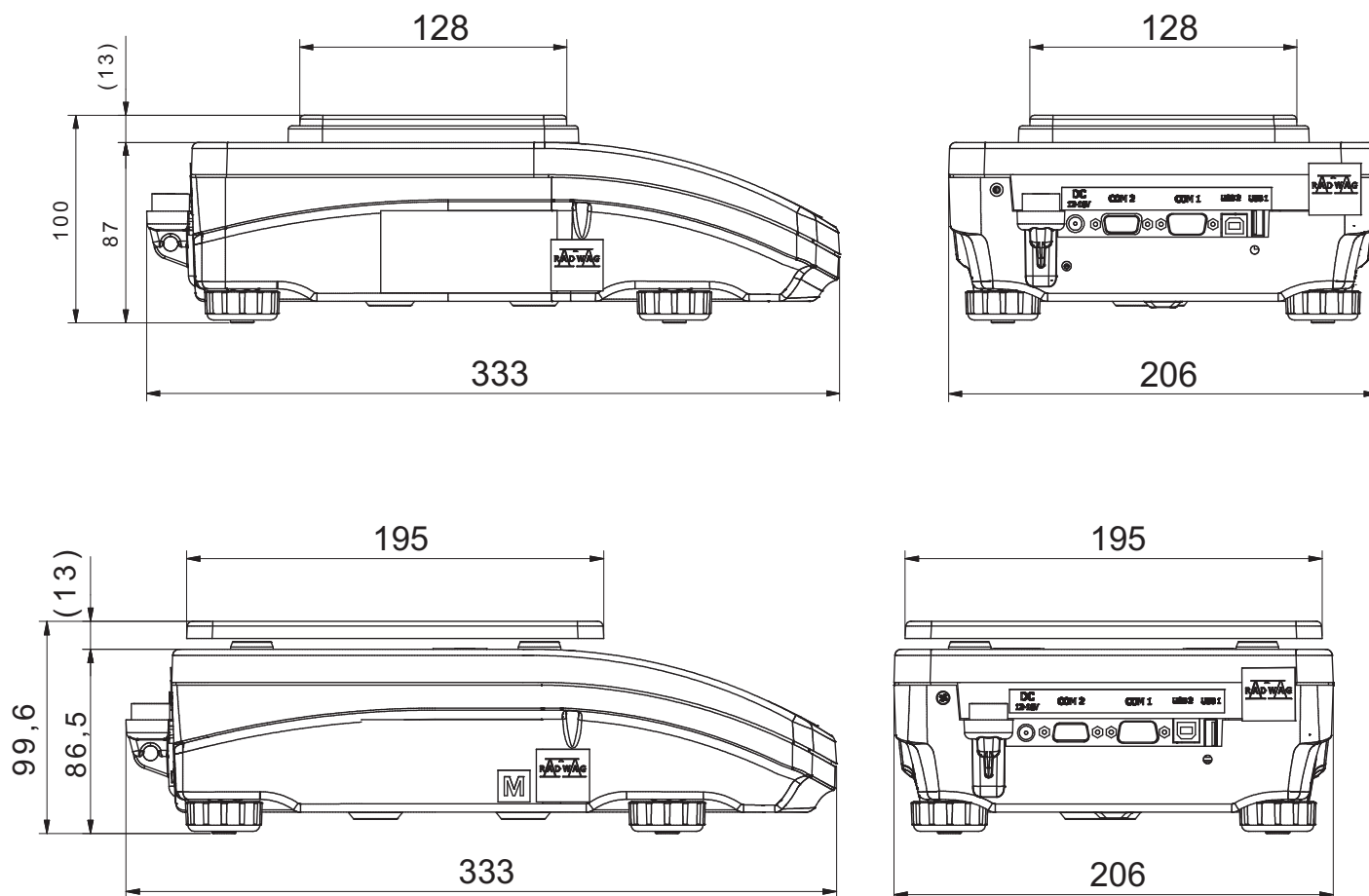
The used ALIBI memory is a data secure area and allows to record up to 100 000 weighting records. It ensures security of constant data register in the long time period.



Technical specification:

	PS 510.R1.CT -	PS 510.R2.CT M17	PS 2100.R1.CT -	PS 2100.R2.CT M17
Max capacity	510 g / 2550 ct	510 g / 2550 ct	2100 g / 10500 ct	2100 g / 10500 ct
Minimal load	0,02 g / 0,1 ct	0,02 g / 0,1 ct	0,5 g / 2,5 ct	0,5 g / 2,5 ct
Readability	0,001 g / 0,005 ct	0,001 g / 0,005 ct	0,01 g / 0,05 ct	0,01 g / 0,05 ct
Tare range	-510 g / -2550 ct	-510 g / -2550 ct	2100 g / -10500 ct	2100 g / -10500 ct
Repeatability	0,001 g / 0,005 ct	0,001 g / 0,005 ct	0,01 g / 0,05 ct	0,01 g / 0,05 ct
Linearity	±0,002 g / 0,01 ct	±0,002 g / 0,01 ct	±0,02 g / 0,1 ct	±0,02 g / 0,1 ct
Pan size	128 × 128 mm	128 × 128 mm	195 × 195 mm	195 × 195 mm
Sensitivity drift	2 ppm/°C in temperature +10 ° ÷ +40 °C			
Stabilization time	2 s	2 s	1,5 s	1,5 s
Working temperature	+10° ÷ +40 °C			
Interface	2 × RS 232, USB type A, USB type B, Wireless Module - option			
Power supply	12 ÷ 16 V DC / 2,1 A			
Adjustment / Calibration	internal (for R2 version) or external (for R1 version)			
Display	LCD (backlit)			
Net weight / gross weight	3,6 / 5,6 kg	4,3 / 6,3 kg	3,6 / 5,1 kg	4,8 / 6,3 kg
Packaging dimensions	470×380×336 mm			

Dimensions:



PS.R balances are verified in two steps (external adjustment option unavailable). Due to acceleration of gravity effect it is necessary to carry out balance adjustment procedure at the balance place of use. The service charge is calculated for each place of use individually.

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