

R Series Laboratory Balances

Innovative solutions of the R series, redefined operation and presentation of weighing results.

The R series balances represent the standard level of precision instruments. They have been equipped with LCD screen, providing even clearer result presentation. To maximize the comfort of operation, the display has been enriched with an extra text line supplying you with either information or prompts on the weighing process (product name, tare value, etc.).

A new feature of the R series balances is a set of symbols showing a current working mode, type of connection with a computer, battery state, weighing and service functions. Additionally, now there are even more weighing units at your disposal (g, mg, etc.). Weighing results are recorded in ALIBI memory.

The R series features a plastic housing and a stainless steel weighing pan, and enables under-pan weighing, wherein the load is suspended under the balance

Home screen

A Symbols

B Extra text line

C Direct access to databases

Access to a particular working mode functions

E Working mode selection

F Direct start-uap of balance adjustment procedure

Transfer of display state to a peripheral device

H Navigation buttons







AS R2 PLUS Analytical balances

Maximum capacity [Max]: up to 520 g Readability [d]: down to 0,01 mg

Weighing pan dimensions: ø 90 mm, ø 100 mm, ø 85 mm (option)



PS R1 Precision balances

Maximum capacity [Max]: up to 6100 g Readability [d]: down to 1 mg

Weighing pan dimensions: 128×128 mm, 195×195 mm



PS R2 Precision balances

Maximum capacity [Max]: up to 10100 g Readability [d]:
Weighing pan dimensions: down to 1 mg

128 × 128 mm, 195 × 195 mm



MA R Moisture analyzers

Maximum capacity [Max]: Readability [d]:

Weighing pan dimensions:

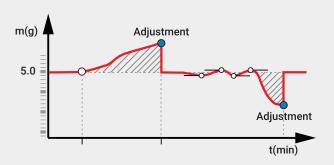
up to 210 g down to 0.1 mg ø 90 mm, h = 8 mm

Quality and Precision

Auto-Cal - automatic system of adjustment procedure

Auto-Cal system is a tool for control and correction. It provides accurate weighing regardless of temperature variation, the position of the balance or changing environmental conditions. This allows the R series balances to offer accuracy in all conditions.

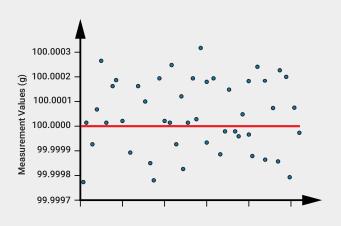
The built-in adjustment weight has been designed to maintain accurate indications. Discover that with our automatic or semiautomatic adjustment procedure, performed periodically, you may grow confident about your weighing results' accuracy. The adjustment system guarantees that accurate weighing results are obtained even for challenging working conditions. It is used for GLP, GMP control procedures.



Repeatability of indications

The monolithic system ensures even greater accuracy and repeatability of weighing due to consolidation of elements of the balance's mechanical design. Using such technology results in higher quality balances.

Owing to the monolithic systems, R series balances offer fast measurement and excellent repeatability. These up-to-date design solutions, being highly resistant to transport shocks, are characterized by good metrological parameters.



Operating temperature range

Now, owing to a wider working temperature range, you don't have to monitor and adjust the room temperature, affecting your balance stability, over and over again.

Communication interfaces

The R series balances have been equipped with various means of communication. They offer standard cable connections, realized via USB-A and USB-B or RS 232 ports, and wireless connection, realised via Wi-Fi technology. The latter is supported by all RADWAG-manufactured programs.

Databases ergonomics for your weighing process

You certainly will appreciate information system of R series balances. The system is based on 5 databases: users database (10 different operators), products database (1000 different products), weighments database (1000 different measurements), tares database (10 different packaging weights).

When operating the new R series balances you can analyze particular measurements in details, export or import any data and exchange.

Resistance to ambient conditions

Increased resistance to fluctuating ambient conditions such as breezes and changes in humidity provides more accurate measurements.



Functionality and Ergonomics

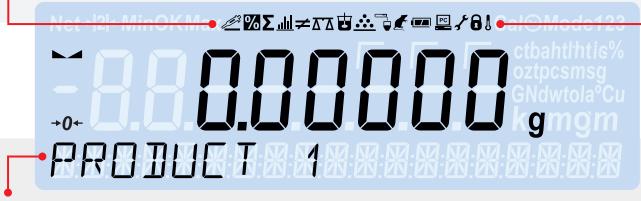
Symbols and units

The R series offers a priceless set of intuitive symbols signalling current working mode, computer connection type, battery status, function that is in operation and much more. The symbols add to readout clarity, they provide maximum comfort of operation and improve ergonomics. Another facility supporting the weighing process is a wider choice of units.

Ambient conditions monitoring

Stable ambient temperature is a key factor when it comes to the accuracy of balance indications. The R series balances feature an ergonomic diagnostic tool, namely, automatic monitoring of balance temperature. The dynamics of balance temperature variation is registered online. Shall the limit values be exceeded, a thermometer symbol is displayed on the balance screen. This calls for the necessity to stabilize the balance.

You may find ambient conditions monitoring especially useful during installation of the balance at its place of use. This solution may also turn out to be exceptionally valuable for observation of ambient temperature variation.



Extra text line

An extra text line provides you with either information or prompts on the weighing process, e.g. product name or tare value.

Bar Graph, visual representation of load capacity

The bar graph indicates the load capacity change in real time. It can be run for various working modes with threshold markers, e.g. parts counting, dosing, percent weighing, animal weighing, statistics, totaling, peak hold or checkweighing.



Minimum value

Maximum value



Minimum value

Maximum value



Minimum value

Maximum value



Mass value lower than the value of minimum threshold



Mass value contained within thresholds



Mass value higher than the value of maximum threshold

Database Security

Data protection

Access to the secured sensitive data is only possible when logged in. The access rights for each operator are set up by the Administrator.

Archiving and data exchange

Archive your data. You will do it by transfer of reports on performed processes and partial measurements to external devices via a USB interface. With the USB interface, you can control the working process, restore any data, and copy the balance settings.

ALIBI memory

ALIBI memory is a guarantee of data protection. It enables record of up to 100 000 weighings. This ensures security of stored data over long period of time.



ALIBI Reader PC software enables the user to preview all weighings recorded in balance memory. The software allows printout of selected data and creation of PDF and CSV (Excel) reports.

Reports and Printouts

Configurable printouts

In the new R series balances the weighing reports are divided into 3 configurable sections, each of which can be fully customized.

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Measurement printouts sent to PC software

Measurements carried out by R series balance can be transferred directly to R-Lab and RAD KEY PC software.



RAD KEY PC Software is designed to acquire your balance data with the use of special HotKey, which is then entered into an active spreadsheet cell.



R-Lab software enables scale preview and generating both weighings and statistics graphs.

Sample report divided into three configurable sections: header, GLP printout and footer.

All R balances communicate with computer printers supporting PCL standard. Communication between the devices is established via USB or RS 232 interface.

Technical Specification

	Product Code	Model	Max. capacity	Readability	Repeatability	Weighing pan dimensions
	WL-104-0179	AS 62.R2 PLUS	62 g	0.01 mg	0.012 mg	ø90 mm & ø85 mm (option)
	WL-104-0175	AS 110.R2 PLUS	110 g	0.1 mg	0.06 mg	ø90 mm & ø85 mm (option)
	WL-104-0191	AS 120.R2 PLUS	120 g	0.01 mg	0.012 mg	ø90 mm & ø85 mm (option)
anoono.	WL-104-1052	AS 60/220.R2 PLUS	60 / 220 g	0.01 / 0.1 mg	0.012 mg	ø90 mm & ø85 mm (option)
	WL-104-1051	AS 82/220.R2 PLUS	82 / 220 g	0.01 / 0.1 mg	0.012 mg	ø90 mm & ø85 mm (option)
	Product Code	Model	Max. capacity	Readability	Repeatability	Weighing pan dimensions
	WL-104-0230	AS 120.R1 PLUS	120 g	0.1 mg	0.06 mg	ø100 mm
	WL-104-0229	AS 220.R1 PLUS	220 g	0.1 mg	0.07 mg	ø100 mm
1	WL-104-0176	AS 160.R2 PLUS	160 g	0.1 mg	0.07 mg	ø100 mm
nacca.	WL-104-0177	AS 220.R2 PLUS	220 g	0.1 mg	0.07 mg	ø100 mm
S M OSO H B	WL-104-0178	AS 310.R2 PLUS	310 g	0.1 mg	0.08 mg	ø100 mm
	WL-104-0186	AS 520.R2 PLUS	520 g	0.1 mg	0.08 mg	ø100 mm
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	Product Code	Model	Max. capacity	Readability	Repeatability	Weighing pan dimensions
1	WL-213-0020	PS 360.R1	360 g	0.001 g	0.0005 g	128×128 mm
gago.	WL-213-0080	PS 600.R1	600 g	0.001 g	0.0005 g	128×128 mm
BEAGUE	WL-213-0022	PS 750.R1	750 g	0.001 g	0.0005 g	128×128 mm
and the second	WL-213-0023	PS 1000.R1	1000 g	0.001 g	0.0005 g	128×128 mm
	WL-213-1002	PS 200/2000.R1	200 / 2000 g	0.001 / 0.01 g	0.0005 / 0.005 g	128×128 mm
	Product Code	Model	Max. capacity	Readability	Repeatability	Weighing pan dimensions
	WL-213-0091	PS 3500.R1.M	3500 g	0.01 g	0.005 g	195×195 mm
000.	WL-213-0091 WL-213-0078	PS 4500.R1.M	4500 g	0.01 g	0.005 g	195×195 mm
E B B B B B	WL-213-0085	PS 6100.R1.M	6100 g	0.01 g	0.005 g	195×195 mm
	Product Code	Model	Max. capacity	Readability	Repeatability	Weighing pan dimensions
	WL-212-0018	PS 210.R2	210 g	0.001 g	0.0005 g	128×128 mm
	WL-212-0016 WL-212-0019	PS 360.R2	360 g	0.001 g	0.0005 g	128×128 mm
	WL-212-0019	PS 0.6.R2	600 g	0.00 r g	0.005 g	195×195 mm
DEGO.						128×128 mm
	WL-212-0020 WL-212-0021	PS 600.R2	600 g	0.001 g	0.0005 g	
V And Address of the Lot of the L		PS 750.R2	750 g	0.001 g	0.0005 g	128×128 mm
	WL-212-0022 WL-212-1003	PS 1000.R2 PS 200/2000.R2	1000 g 200 / 2000 g	0.001 g 0.001 / 0.01 g	0.0005 g 0.0005 / 0.005 g	128×128 mm 128×128 mm
	Product Code	Model	Max. capacity	Readability	Repeatability	Weighing pan dimensions
	WL-212-0170	PS 2100.R2.M	2100 g	0.01 g	0.005 g	195×195 mm
	WL-212-0170	PS 3500.R2.M	3500 g	0.01 g	0.005 g	195×195 mm
ann.	WL-212-0173	PS 4500.R2.M	4500 g	0.01 g	0.005 g	195×195 mm
E REGER	WL-212-0134 WL-212-0135	PS 6100.R2.M	6100 g	0.01 g	0.005 g	195×195 mm
	WL-212-0133 WL-212-0132	PS 8100.R2.M	8100 g	0.01 g	0.005 g	195×195 mm
	WL-212-0132 WL-212-0133	PS 10100.R2.M	10100 g	0.01 g	0.005 g	195×195 mm
	Product Code	Model	Max. capacity	Readability	Repeatability	Weighing pan dimensions
	WL-221-0001	PS 210.R2.H	210 g	0.001 g	0.0005 g	ø100 mm
	WL-221-0001	PS 360.R2.H	360 g	0.001 g	0.0005 g	ø100 mm
	WL-221-0002 WL-221-0003	PS 600.R2.H	600 g	0.001 g	0.0005 g	ø100 mm
000	WL-221-0003	PS 750.R2.H	750 g	0.001 g	0.0005 g	ø100 mm
₹	WL-221-0004 WL-221-0005	PS 1000.R2.H	1000 g	0.001 g	0.0005 g	ø100 mm
	Product Code	Model	Max. capacity	Readability	Repeatability	Weighing pan dimensions
	WL-221-1001	PS 200/2000.R2.H	200 / 2000 g	0.001 / 0.01 g	0.0005 / 0.005 g	ø100 mm
	WL-221-0023	PS 2100.R2.M.H	2100 a	0.010	0.005 0	195×195 mm
	WL-221-0023 WL-221-0024	PS 2100.R2.M.H PS 3500.R2.M.H	2100 g 3500 a	0.01 g 0.01 a	0.005 g 0.005 a	195×195 mm 195×195 mm
	WL-221-0023 WL-221-0024 WL-221-0025	PS 2100.R2.M.H PS 3500.R2.M.H PS 4500.R2.M.H	3500 g 4500 g	0.01 g 0.01 g 0.01 g	0.005 g 0.005 g	195×195 mm 195×195 mm 195×195 mm