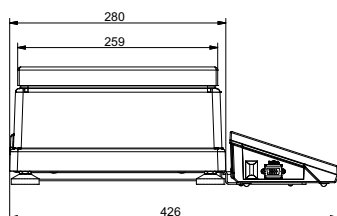
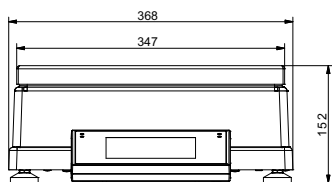


PRECISION BALANCES APP 3Y



release date 15-11-2012



Balances APP 3Y series are laboratory weighing instruments featuring 5,7" LCD colour touch panel which provides new possibilities of balance operation and presenting measurement results.

Personalization of balance settings is carried out in extended user profiles. 3Y series comes standard with system of automatic internal adjustment.

Level control is based on LevelSENSING system, RADWAG patented solution, which uses a system of an electronic level. Balances APP 3Y series enable online monitoring of ambient conditions through built-in sensors or an external ambient conditions module THB 2 series.

Large weighing pan 347 x 259 mm enables weighing loads with large dimensions. Balances with reading unit 10 mg feature a dedicated openwork weighing pan limiting influence of air movement onto the measurement result. APP 3Y series is successfully used in applications such as parts counting, differential weighing also in industrial conditions.



Component pan: flat surface for big loads and openwork pan for reducing indication errors.

- Weighing
- Parts counting
- Checkweighing
- Filling
- Percent setup
- Density determination
- Animal weighing
- Formulation
- Statistics
- Differential weighing

Technical data:

	APP 10.3Y M	APP 10.3Y.1 -	APP 25.3Y M	APP 25.3Y.1 -	APP 35.3Y M	APP 35.3Y.1 -	APP 50.3Y.1 -
Max capacity	10 kg	10 kg	25 kg	25 kg	35 kg	35 kg	50 kg
Readability	0,01 g	0,01 g	0,1 g	0,1 g	0,1 g	0,1 g	0,1 g
Tare range	-10 kg	-10 kg	-25 kg	-25 kg	-35 kg	-35 kg	-50 kg
Repeatability *	0,01 g	0,01 g	0,1 g	0,1 g	0,3 g	0,3 g	0,15 g
Linearity	± 0,02 g	± 0,02 g	± 0,1 g	± 0,1 g	± 0,1 g	± 0,1 g	± 0,5 g
Adjustment / Calibration	internal (3Y) or external (3Y.1)						
Pan size	347 × 259 mm						
Stabilization time	4 s	4 s	3 s	3 s	3 s	3 s	3 s
Sensitivity drift	2ppm/°C in temperature +15 ° + +35 °C						
Interface	2×USB, RS 232, Ethernet, 4 in / 4 out (digital)						
Power supply	13,5 ÷ 16 V DC / 2,1 A						
Display	5,7" touch screen						
Net weight APP 3Y	19,9 / 22,9 kg						
Gross weight APP 3Y.1	13,5 / 16,5 kg						
Packaging size	570 × 560 × 325 mm						

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

Additional equipment:

Antivibration table for laboratory balances	THB 2 ambient conditions module
Kafka thermal printer	Power adapter with battery and charger ZR-02
Dot matrix Epson printer	Mass standard
Label printer Citizen	Power loop module AP2-1 (wersja plastikowa)
Tare and "Print" foot button	Antistatic cable PA 1
PW-WIN computer software	Bar code scanner
RAD-KEY computer software	Cable RS 232 (scale - Kafka printer) "P0136"
Additional LCD display "WD-5/3Y"	Cable RS 232 (scale, Epson, Citizen printer) "P0151"
PC USB keyboard	

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APP.R PRECISION BALANCES



release date 20-09-2013



Flat surface for big loads and openwork pan for reducing indication errors - APP 10.R1 i APP 10.R2

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 1000 weighments),
- tares (up to 10 tares),
- ALIBI memory (up to 100 000 weighments).

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.

The new precision **APP.R balances** are a continuation of the APP line and have 348x260 mm pan. 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.

Additionally, the new R series balances by means of pictograms signal the activated working mode, connection with the Internet, the battery charge level, balance service functions. Also a number of displayed measuring units has been increased.

Every R series balance feature a magneto-electric measuring system and a possibility of internal adjustment (for R2 balances) as well as 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. This is an alternative way of measuring non-standard dimensions and shapes products or products emitting electromagnetic field. This method is also used in case of density determination.

APP.R balances are also offered in a head on a 1 m cable version.

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

Technical data:

	APP 10.R2 M	APP 25.R2 M	APP 30.R2 M	APP 35.R2 M	APP 6/35.R2 -
Max capacity	10 kg	25 kg	30 kg	35 kg	6 kg / 35 kg
Minimum load	0,5 g	5 g	5 g	5 g	5 g
Readability	0,01 g	0,1 g	0,1 g	0,1 g	1 / 5 g
Tare range	-10 kg	-25 kg	-30 kg	-35 kg	-35 kg
Repeatability *	0,01 g	0,1 g	0,1 g	0,1 g	1 / 5 g
Linearity	± 0,02 g	± 0,1 g	± 0,3 g	± 0,3 g	± 1 / 5 g
Pan size	348 × 260 mm				
Working temperature	+10° ÷ +40 °C				
Stabilization time	3 s	2,5 s	2,5 s	2,5 s	2,5 s
Sensitivity drift	2ppm/°C in temperature +10 ° ÷ +40 °C				
Interface	RS 232, USB-A, USB-B, WiFi - option				
Power supply**	12 ÷ 16 V DC / 250 mA (**)				
Adjustment/calibration	internal				
Display	LCD (backlit)				
Net weight/Gross weight	19,9 / 22,9 kg				
Packaging size	570 × 560 × 325 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

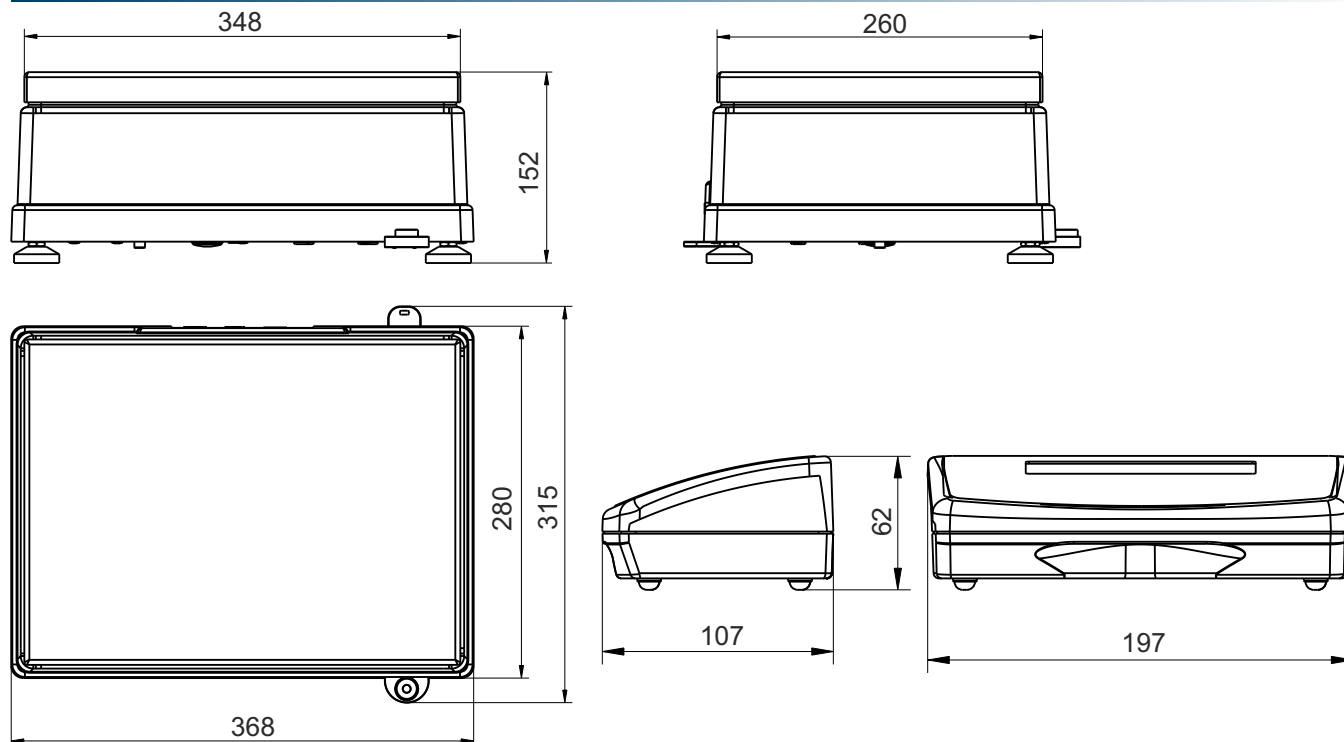
Technical data:

	APP 10.R1	APP 25.R1	APP 30.R1	APP 35.R1	APP 6/35.R1	APP 50.R1
Max capacity	10 kg	25 kg	30 kg	35 kg	6 kg / 35 kg	50 kg
Minimum load	0,5 g	5 g	5 g	5 g	5 g	5 g
Readability	0,01 g	0,1 g	0,1 g	0,1 g	1 / 5 g	0,1 g
Tare range	-10 kg	-25 kg	-30 kg	-35 kg	-35 kg	-50 kg
Repeatability *	0,01 g	0,1 g	0,1 g	0,1 g	1 / 5 g	0,15 g
Linearity	± 0,02 g	± 0,1 g	± 0,3 g	± 0,3 g	± 1 / 5 g	± 0,5 g
Pan size	348 × 260 mm					
Working temperature	+10° ÷ +40 °C					
Stabilization time	3 s	2,5 s	2,5 s	2,5 s	2,5 s	2,5 s
Sensitivity drift	2ppm/°C in temperature +10 ° ÷ +40 °C					
Interface	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	13,5 / 16,5 kg					
Packaging size	570 × 560 × 325 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

Dimensions:



Accessories:

Kafka thermal printer	USB A- USB B cable (balance - computer, balance - PLC printer)
Impact printer Epson	Adjustment weight (R1 version)
"PW-WIN" computer software	Mass standard
"RAD-KEY" computer software	Power loop output AP2-1 (plastic housing)
Additional LCD display "WD-6"	Pillar for the indicator of APP balance
Power adapter with battery and charger ZR-02	Cable RS 232 (scale - Kafka printer) "P0136"
PC keyboard USB	Cable RS 232 (scale - computer) "P0108"
Bar code scanner	Cable RS 232 (scale, Epson, Citizen printer) "P0151"
External USB memory (FAT files format)	"Tare" or "Print" foot button

PRECISION BALANCES PS 3Y



release date 31-10-2012














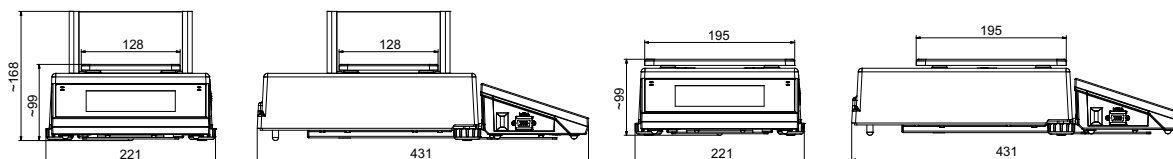
Balances PS 3Y series are laboratory weighing instruments featuring 5,7" LCD colour touch panel which provides new possibilities of balance operation and presenting measurement results.

Personalization of balance settings is carried out in extended user profiles. 3Y series comes standard with system of automatic internal adjustment.

Level control is based on LevelSENSING system, RADWAG patented solution, which uses a system of an electronic level. New function of PS 3Y series is online monitoring of ambient conditions through built-in sensors or an external ambient conditions module THB 2 series.

PS 3Y series offers two models of weighing pans which enable weighing with different accuracy. New working mode of the PS 3Y series: differential weighing, allows the balance to control mass of the same sample subjected to differed processes over time. Extended databases enable storing all carried out measurements, with option of printing and exporting them. Standard and user defined printouts allow for maintaining documentation complying with GLP/GMP requirements practically in any application. PS 3Y series features an independent mass control mode carried out with application of an automatic feeder PA-02/H.

-  Weighing
-  Parts counting
-  Checkweighing
-  Dosing
-  Percent setup
-  Density determination
-  Animal weighing
-  Formulation
-  Statistics
-  Differential weighing
-  Mass control



Technical data:

	PS 200/2000.3Y	PS 250.3Y	PS 450.3Y	PS 600.3Y	PS 750.3Y	PS 1000.3Y	PS 1500.3Y	PS 2500.3Y	PS 4500.3Y	PS 6000.3Y
	M	M	M	M	M	M	M	M	M	M
Max capacity	200/2000 g	250 g	450 g	600 g	750 g	1000 g	1500 g	2500 g	4500 g	6000 g
Minimal load	20 mg	20 mg	20 mg	20 mg	20 mg	20 mg	500 mg	500 mg	500 mg	500 mg
Readability	1/10 mg	1 mg	1 mg	1 mg	1 mg	1 mg	10 mg	10 mg	10 mg	10 mg
Tare range	-200/-2000 g	-250 g	-450 g	-600 g	-750 g	-1000 g	-1500 g	-2500 g	-4500 g	-6000 g
Linearity	±2/10 mg	±2 mg	±2 mg	±3 mg	±3 mg	±3 mg	±20 mg	±20 mg	±20 mg	±30 mg
Repeatability	1/10 mg	1 mg	1 mg	1,5 mg	1,5 mg	1,5 mg	10 mg	10 mg	10 mg	15 mg
Pan size	128×128 mm						195×195 mm			
Stabilization time	2 s / 1,5 s	2 s	2 s	2 s	2 s	2 s	1,5 s	1,5 s	1,5 s	1,5 s
Sensitivity drift	2 ppm/°C in temperature +15 ÷ +35 °C									
Working temperature	+10 ÷ +40 °C (**)									
Power supply	13,5 ÷ 16 V DC / 2,1 A									
Interface	2xUSB, RS 232, Ethernet, 4 inputs / 4 outputs (digital)									
Packaging size	716 × 360 × 260 mm									
Display	5,7" touch panel									

** Balance maintains parameters in accordance with type approval in temperatures 15 ÷ 35°C;

Additional equipment:

Anti vibration table for laboratory balances	Automatic feeder PA-02/H
Printer Kafka, Epson, Citizen	Mass standard
Foot button for tare or print functions	LCD display WD-5/3Y
Density determination kit for solids and liquids	Power adapter with battery and charger ZR-02
PC USB keyboard	Power loop output AP2-1 (plastic version)
Anti draft shield	Antistatic cable PA 1
Bar code scanner	Computer software: PW-WIN, RAD-KEY
THB 2 ambient conditions module	Cable: P0136, P0151

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PS.R1 PRECISION BALANCES



release date 05-06-2014



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				128x128 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 x 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				470x380x336 mm			

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

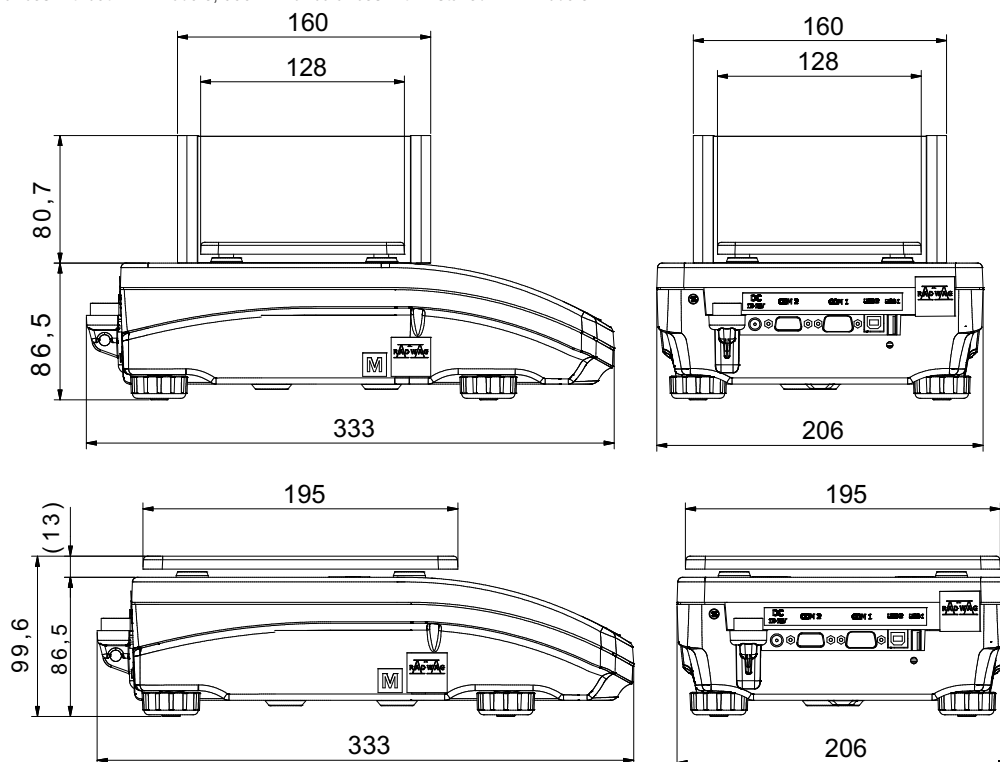
** 250 mA for balances without WiFi module, 350 mA for balances with installed WiFi module

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

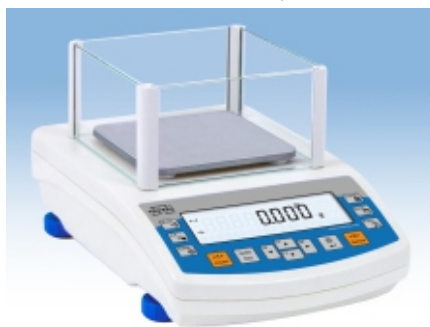
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PS.R2 PRECISION BALANCES














release date 20-09-2013



PS.R2 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.R2 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.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.

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

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 1000 weighments),
- tares (up to 10 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 M	PS 210.R2 M	PS 360.R2 M	PS 600.R2 M	PS 750.R2 M	PS 1000.R2 M
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	128x128 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 x RS 232, USB-A, USB-B, WiFi - option					
Power supply**	12 ÷ 16 V DC / 2,1 A					
Adjustment/calibration	internal (automatic)					
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
Packaging size	470x380x336 mm					

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

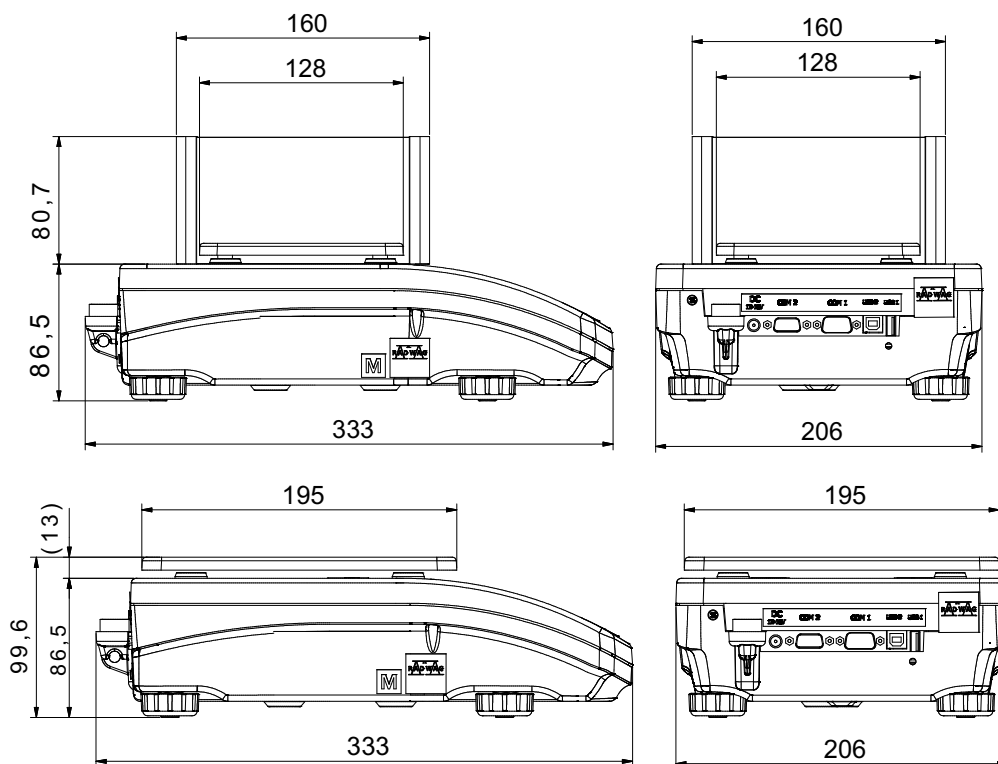
** 250 mA for balances without WiFi module, 350 mA for balances with installed WiFi module

Technical data:

	PS 1200.R2 M	PS 2100.R2 M	PS 3500.R2 M	PS 4500.R2 M	PS 6000.R2 M
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 in temperature +10 ÷ +40 °C				
Interface	2 × RS 232, USB-A, USB-B, WiFi - option				
Power supply**	12 ÷ 16 V DC / 2,1 A				
Adjustment/calibration	internal (automatic)				
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)
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	Szafka przeciwpodmuchowa (do wag z szalką 128x128)
Density determination kit	USB A- USB B cable (balance - computer, balance - PLC printer)
Rack for under hook weighing	Cable RS 232 (scale - Kafka printer) "P0136"
"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

RADWAG Balances & Scales

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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 2×RS 232, USB type A, USB type B, and WiFi 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, WiFi - 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 WiFi module, 350 mA for balances with installed WiFi 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, WiFi - 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 WiFi module, 350 mA for balances with installed WiFi 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	

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PRECISION BALANCES WLC C/2









release date 24-03-2014

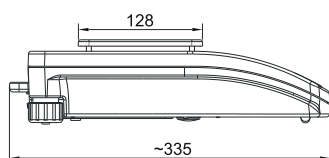


Balances series WLC C/2 are designed for fast and precise mass determination in laboratory and industrial conditions. They are easily utilized in areas with no access to mains (230V), as their standard equipment includes internal rechargeable battery and RS 232 output. WLC/C2 series independently on version (pan size: 128×128, and 195×195 mm) features stainless steel weighing platform and backlit LCD display providing good reading of weighing result. WLC/C2 series comprises system of automatic internal adjustment/calibration system.

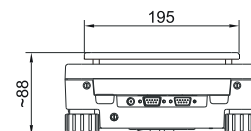
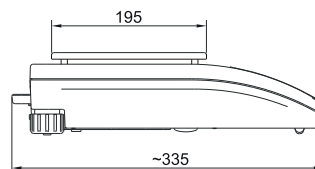
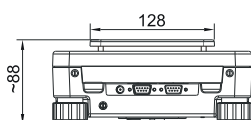
Series WLC A2 offers the possibility of weighing loads outside weighing platform (so called under hook weighing), where a load is hanged under the instrument. This is an alternative for weighing loads with non-standard dimensions and shapes.

-  Parts counting
-  Checkweighing
-  Animal weighing
-  Percent setup
-  Peak hold
-  Measurement in Newton

A1 version



A2 version



Technical data:

	WLC 0,6/A1/C/2 M	WLC 1/A2/C/2 -	WLC 6/A2/C/2 M
Max capacity	0,6 kg	1 kg	6 kg
Readability	0,01 g	0,01 g	0,1 g
Tare range	-0,6 kg	-1 kg	-6 kg
Repeatability	0,02 g	0,03 g	0,2 g
Linearity	±0,2 g	±0,03 g	±0,2 g
Pan size	128 × 128 mm		195 × 195 mm
Interface	RS 232		
Power supply	230V / 11V AC or 120V / 11V AC, and accumulator		
Calibration	internal (automatic)		
IP rating	IP 43		
Stabilization time	3 s		
Working temperature	+15° ÷ +30 °C		
Atmospheric humidity	10+85% RH no condensation		
Display	LCD (backlit)		
Net weight / Gross weight	3,6 / 5,6 kg	3,6 / 5,1 kg	
Packaging dimensions	470×380×336 mm		

Additional equipment:

IMPACT "EPSON" PRINTER	DENSITY DETERMINATION KIT FOR SOLIDS AND LIQUIDS
RACK FOR UNDER HOOK WEIGHING	EXTERNAL RECHARGEABLE BATTERY PACK
LCD ADDITIONAL DISPLAY	SUITCASE FOR BALANCE
	COMPUTER SOFTWARE: PW-WIN 2005, RAD-KEY 2000

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PRECISION BALANCES WLC









release date 02-01-2014



Balances series WLC are designed for fast and precise mass determination in laboratory and industrial conditions. They can also be used in areas with no access to mains (230V), as their standard equipment they includes internal rechargeable battery and RS 232 output. WLC series, independently on model (pan size: 128×128, 125×145, 195×195, 300×300 and 400×500 mm) and capacity, features stainless steel weighing platform and backlit LCD display providing good reading of weighing result.

Balances series A1 and A2 offer the possibility of weighing loads outside weighing platform (so called under hook weighing), where a load is hanged under the instrument. This is an alternative for weighing loads with non-standard dimensions and shapes.

-  Parts counting
-  Checkweighing
-  Animal weighing
-  Percent setup
-  Caps lock of max indication
-  Measurement in Newton

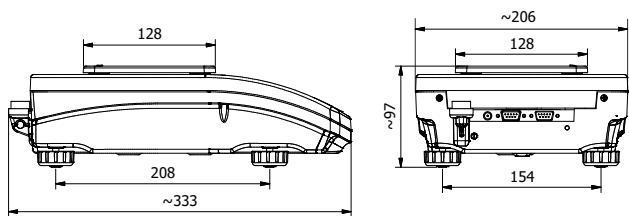
Technical data:

	WLC 0,6/B1 M	WLC 0,6/A1 M	WLC 1/A2	WLC 2/A2	WLC 6/A2 M	WLC 10/A2	WLC 20/A2
Max capacity	0,6 kg	0,6 kg	1 kg	2 kg	6 kg	10 kg	20 kg
Minimal load	0,5 g	0,5 g	-	-	0,5 g	-	-
Reading unit	0,01 g	0,01 g	0,01 g	0,01 g	0,1 g	0,1 g	0,1 g
Verification unit	0,1 g	0,1 g	-	-	1 g	-	-
Tare range	-0,6 kg	-0,6 kg	-1 kg	-2 kg	-6 kg	-10 kg	-20 kg
Repeatability	0,01 g	0,01 g	0,03 g	0,03 g	0,1 g	0,3 g	0,3 g
Linearity	±0,01 g	±0,01 g	±0,03 g	±0,03 g	±0,1 g	±0,3 g	±0,3 g
Pan size	125 × 145 mm	128 × 128 mm			195 × 195 mm		
OIML class	II	II	-	-	II	-	-
Interface	RS 232						
Power supply	11V AC or 10,5+15V DC I _{max} =600mA, and accumulator						
IP rating	IP 43						
Stabilization time	3 s						
Working temperature	+15° + 30 °C						
Display	LCD (backlit)						
Net weight/Gross weight	1,2 / 2 kg	2,8 / 4,8 kg	2,8 / 4,3 kg				
Packaging dimensions	320×210×150 mm		470×380×336 mm				

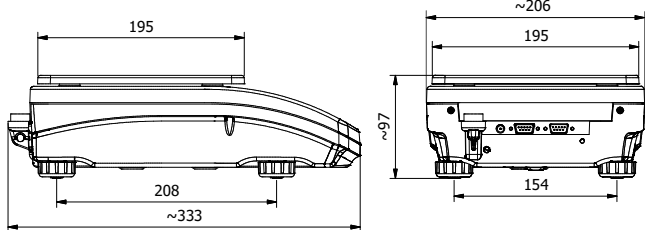
Technical data:

	WLC 6/F1/R WLC 6/F1/K M	WLC 12/F1/R WLC 12/F1/K	WLC 30/F1/R WLC 30/F1/K	WLC 60/C2/R WLC 60/C2/K M	WLC 120/C2/R WLC 120/C2/K
Max capacity	6 kg	12 kg	30 kg	60 kg	120 kg
Minimal load	5 g	-	-	50 g	-
Reading unit	0,1 g	0,2 g	0,5 g	1 g	2 g
Verification unit	1 g	-	-	10 g	-
Tare range	-6 kg	-12 kg	-30 kg	-60 kg	-120 kg
Repeatability	0,3 g	0,6 g	1,5 g	1 g	2 g
Linearity	±0,3 g	±0,6 g	±1,5 g	±1 g	± 2 g
Pan size	300 × 300 mm		400 × 500 mm		
OIML class	II	-	-	II	-
Interface	RS 232				
Power supply	11V AC or 10,5+15V DC I _{max} =600mA, and accumulator				
Stabilization time	3 s				
Working temperature	+15° - +30 °C				
Display	LCD (backlit)				
Net weight/Gross weight	5,2 / 6 kg			12,5 / 15 kg	
Packaging dimensions	570×390×170 mm			720×580×220 mm	

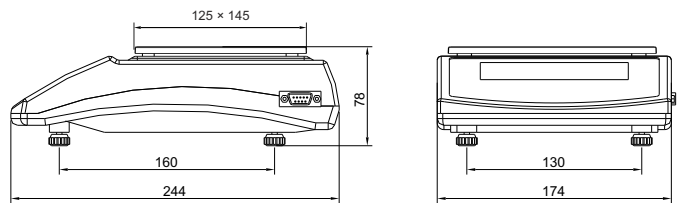
A1 version



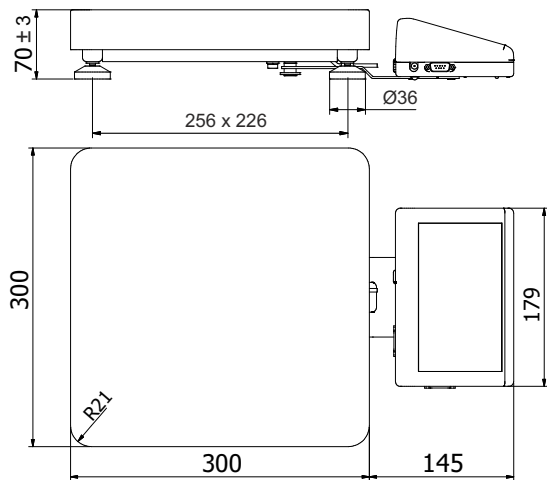
A2 version



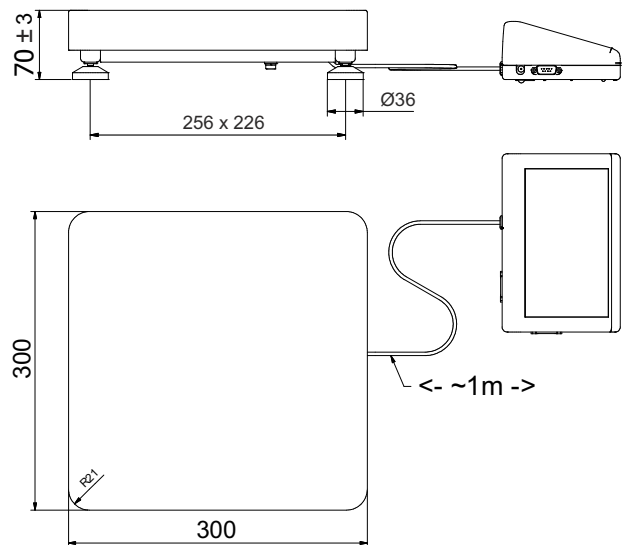
B1 version



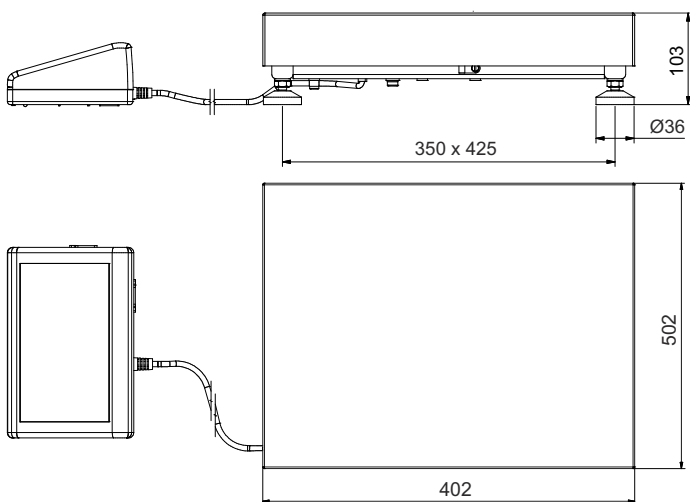
F1/R version



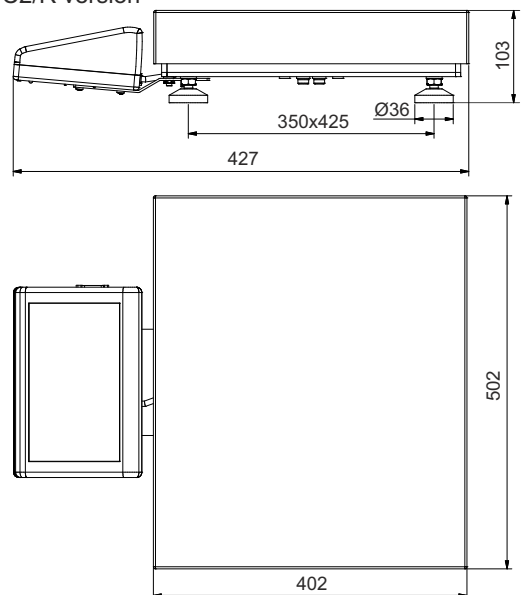
F1/K version



C2/K version



C2/R version



Additional equipment:

"KAFKA" THERMAL PRINTER

IMPACT "EPSON" PRINTER

RACK FOR UNDER HOOK WEIGHING

SUITCASE FOR BALANCE

ADDITIONAL LCD DISPLAY

DENSITY DETERMINATION KIT FOR SOLIDS AND LIQUIDS

EXTERNAL BATTERY PACK WITH CHARGER

COMPUTER SOFTWARE PW-WIN 2005, RAD-KEY 2000, REC-FS 2000

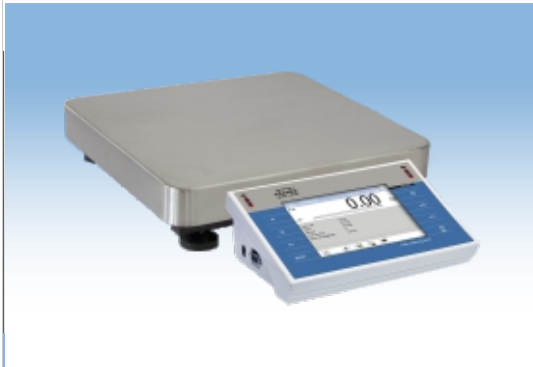
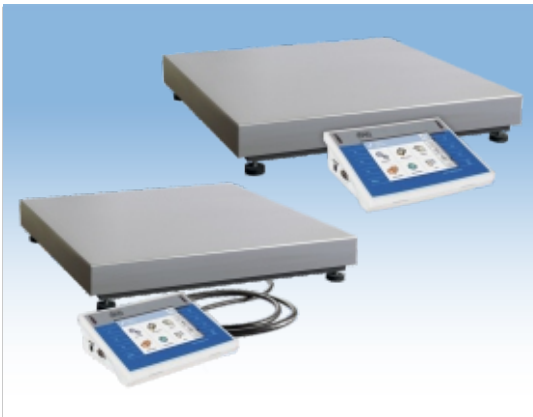
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PRECISION BALANCES WLY



release date 28-06-2013



Precision balances series WLY are the response for the growing market demands concerning simple operation and maximum automation of the weighing process.

WLY series can cooperate with barcode scanners, receipt and label printers, RFID scanners and PC peripherals (mouse, keyboard, USB flash data storage devices).

DESIGN AND FUNCTIONALITY

All models of WLY series feature stainless steel weighing pan and a touch panel covering a 5.7" colour graphic display and membrane keyboard. WLY balances can cooperate with an additional weighing platform.

WLY highlights:

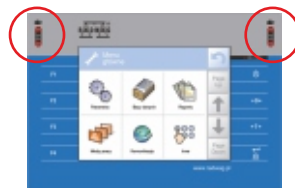
- programmable display and function keys
- programmable infrared proximity sensors
- desining custom printouts
- desining text data in display's window.

- Parts counting
- Summing function
- Filling
- Checkweighing
- Labeling
- Percent setup
- Statistics
- Formulation
- Infrared sensors



Data exchange through USB storage devices

- update balance software
- export weighing data



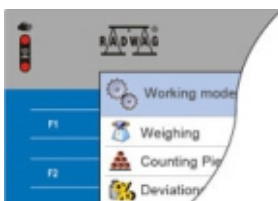
5,7" touch screen

Infrared proximity sensors
Programmable 40 functions (PRINT, TARE and others).



Communication interfaces

- Ethernet
- 2×RS 232
- 2×USB
- 4 in/4 out



In standard balance offers modes of "Parts counting" and "Checkweighing".

Technical data:

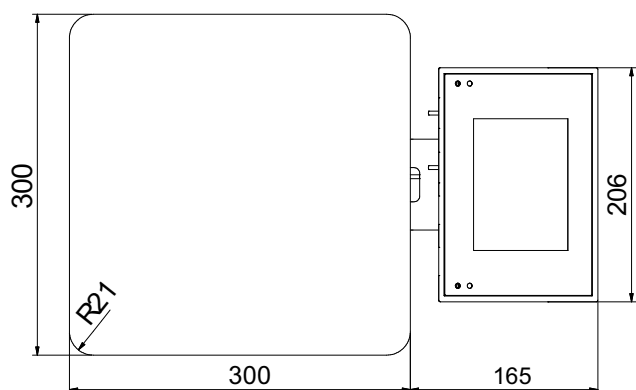
	WLY 1/D2	WLY 2/D2	WLY 6/D2 M	WLY 10/D2	WLY 20/D2
	-	-	-	-	-
Max capacity	1 kg	2 kg	6 kg	10 kg	20 kg
Minimal load	-	-	5 g	-	-
Readability	0,01 g	0,01 g	0,1 g	0,1 g	0,1 g
Verifying unit	-	-	1 g	-	-
Tare range	-1 kg	-2 kg	-6 kg	-10 kg	-20 kg
Repeatability	0,3 g	0,03 g	0,3 g	0,3 g	0,3 g
Linearity	± 0,03 g	± 0,03 g	± 0,3 g	± 0,3 g	± 0,3 g
OIML class	-	-	II	-	-
Pan size	195 × 195 mm				
Stabilization time	3 s				
Working temperature	+15 ° ÷ +30 °C				
Storage temperature	-25 ° ÷ +70 °C				
IP rating	IP 54				
Power supply	110÷230VAC 50/60Hz / 10,5÷15VDC				
Adjustment / Calibration	external				
Display	5,7" touch screen				
Interface	2×USB, 2×RS 232, Ethernet, 4 I/O digital				
Net weight/Gross weight	2,7 / 3,6 kg				
Packaging dimensions	490 × 300 × 150 mm				

Technical data:

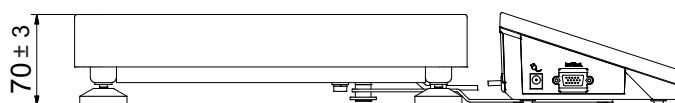
	WLY 6/F1/R WLY 6/F1/K	WLY 12/F1/R WLY 12/F1/K	WLY 30/F1/R WLY 30/F1/K	WLY 60/C2/R WLY 60/C2/K M	WLY 120/C2/R WLY 120/C2/K
	-	-	-	-	-
Max capacity	6 kg	12 kg	30 kg	60 kg	120 kg
Minimal load	-	-	-	50 g	-
Readability	0,1 g	0,2 g	0,5 g	1 g	2 g
Verifying unit	-	-	-	10 g	-
Tare range	-6 kg	-12 kg	-30 kg	-60 kg	-120 kg
Repeatability	0,3 g	0,6 g	1,5 g	3 g	2 g
Linearity	±0,3 g	±0,6 g	±1,5 g	±3 g	±2 g
OIML class	-	-	-	II	-
Pan size	300×300 mm			400×500 mm	
Stabilization time	3 s				
Working temperature	+15 ° - +30 °C				
Storage temperature	-25 ° - +70 °C				
IP rating	IP 54				
Power supply	110÷230VAC 50/60Hz / 10,5÷15VDC				
Adjustment / Calibration	external				
Display	5,7" touch screen				
Interface	2×USB, 2×RS 232, Ethernet, 4 I/O digital				
Net weight/Gross weight	5,2 / 6 kg			15,5/17,8 kg	
Packaging dimensions	570×390×170 mm			720×580×220 mm	

Additional equipment:

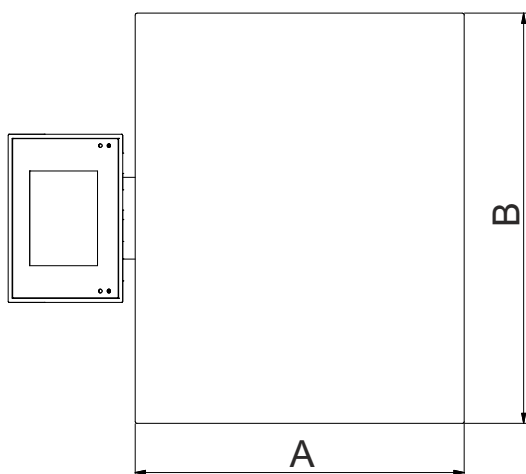
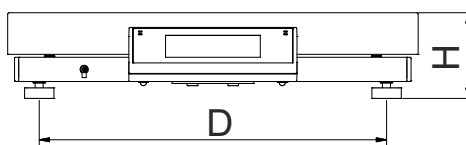
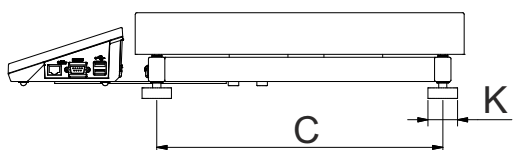
"Kafka" thermal printer	Handle for PUE 7 indicator
"Epson" impact printer	Barcode scanner
"Citizen" label printer	Transponder card scanner CK-01
Computer software „PW-WIN“	Weighing module DP2
Computer software „RAD-KEY“	RS 232 cable: balance - thermal printer: P0136
LCD display „WD-4/4“	RS 232 cable: balance - "Epson/Citizen" printer: P0151
PC keyboard	RS 232 cable: balance - computer: P0108
Calibration weight	Power adapter with jack for car lighter „K0047“
Mass standard	



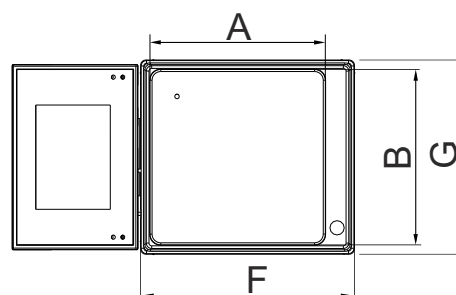
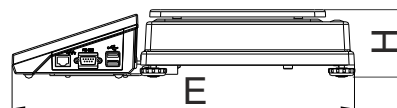
F1version



C2 version

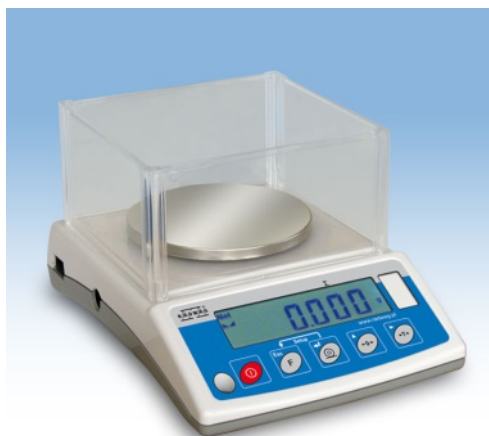


D2 version



Name	A [mm]	B [mm]	C [mm]	D [mm]	H [mm]	E [mm]	F [mm]	G [mm]	K [mm]
WLY ... F1/K	300	300	230	314	70±3	-	-	-	Ø 36
WLY ... F1/R	300	300	230	314	70±3	-	-	-	Ø 36
WLY ... C2/K	402	502	350	425	105±5	-	-	-	Ø 36
WLY ... C2/R	402	502	350	425	105±5	-	-	-	Ø 36
WLY ... D2	195	195	-	-	77	381	238	216	-







PRECISION BALANCES SERIES WTB

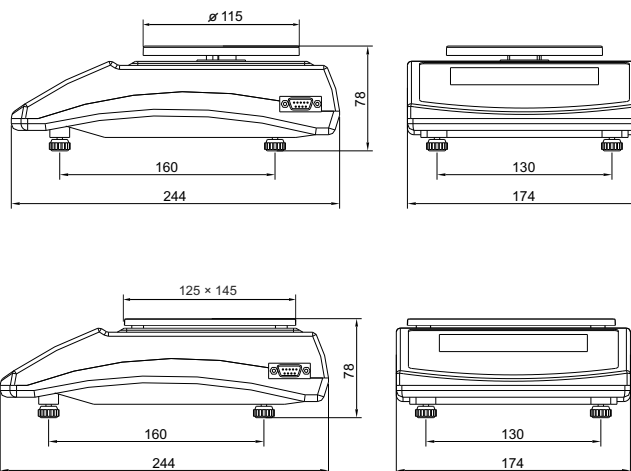


WTB balances are designed for fast and precise determination of mass in laboratory conditions.

They can be used in locations with no access to (230V) as they feature internal rechargeable battery.

WTB series is equipped with stainless steel weighing pan, RS 232 output and backlit LCD display.

-  Parts counting
-  Percent setup
-  Weighing animals
-  Summing function
-  +/- control
-  Peak hold of maximal indication



Technical data:

	WTB 200	WTB 2000
Maximal capacity	200 g	2000 g
Readability	0,001 g	0,01 g
Tare range	-200 g	-2000 g
Repeatability	0,003 g	0,03 g
Linearity	±0,003 g	±0,03 g
Working temperature	+15° - +30° C	
IP rating	IP 43	
Power supply	230V / 11V AC or 120V / 11V AC and 6×AA NiMH accumulator	
Pan size	∅ 115 mm	125 × 145 mm
Display	LCD (backlit)	
Net weight / Gross weight	1,1 / 2 kg	
Packaging dimensions	320×210×150 mm	

Additional equipment:

LCD ADDITIONAL DISPLAY	EXTERNAL RECHARGEABLE BATTERY PACK ZR-02
"KAFKA" THERMAL PRINTER	COMPUTER SOFTWARE: PW-WIN, RAD-KEY, REC-FS, LS-FS
IMPACT "EPSON" PRINTER	RS 232/RS 485 CONVERTER
TABLE FOR SCALE	POWER LOOP AP-2

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