



RADWAG BALANCES AND SCALES
ADVANCED WEIGHING TECHNOLOGIES



X2 Series Balances

Innovative Functional Solutions

X2 Synergy

The X2 series embodies the synergy between conventional solutions characteristic of high quality balances, and technology intended mainly for professional standards.

The combination provides you with a high-tech instrument offering pinpoint accuracy and maximum ease of operation at a price typical of lesser devices.

- 5" color capacitive touchscreen
- Display customization with widgets
- Multilingual, interactive menu
- Sensors for touch-free operation
- Conformity with GLP and GMP regulations
- Dynamically controlled sample weight (bar graph)
- Statistics, formulations, reports and printouts
- Unlimited communication possibilities
- Alibi memory with record of measurements
- Complex databases
- Maximum comfort of operation
- Internal adjustment (excluding MA X2.A)

Home screen

- A** Home screen button
- B** Exit (returning to the previous screen) button
- C** Taring button
- D** On/Off button
- E** Enter/Print button
- F** Zeroing button
- G** Status bar (working mode, metrologically important parameters)
- H** Measurement indication area
- I** Information desktop
- J** Quick access toolbar for the direct operation of balance functions and settings
- K** Current working mode setup
- L** Sensors for touch-free operation



X2 S



AS X2 analytical balances



Maximum capacity [Max]: up to 310 g
 Readability [d]: from 0.01 mg
 Weighing pan dimensions: $\varnothing 90$ mm, $\varnothing 100$ mm, $\varnothing 85$ mm (option)

PS X2 precision balances



Maximum capacity [Max]: up to 10.1 kg
 Readability [d]: from 1 mg
 Weighing pan dimensions: 128 × 128 mm, 195 × 195 mm

WLC X2 precision balances



Maximum capacity [Max]: up to 21 kg
 Readability [d]: from 1 mg
 Weighing pan dimensions: 128 × 128 mm, 195 × 195 mm, $\varnothing 100$ mm

MA X2.A, MA X2.IC.A moisture analyzers



Maximum capacity [Max]: up to 210 g
 Readability [d]: from 0.1 mg
 Weighing pan dimensions: $\varnothing 90$ mm, h = 8 mm

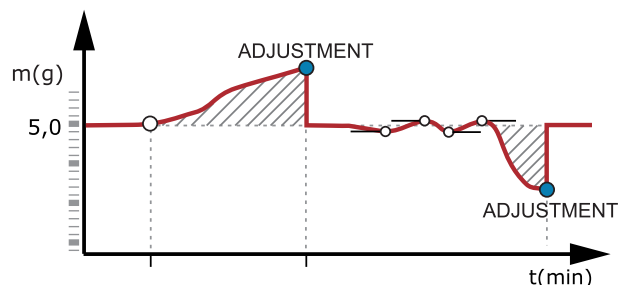
ERIE

The X2 series as a standard for quality



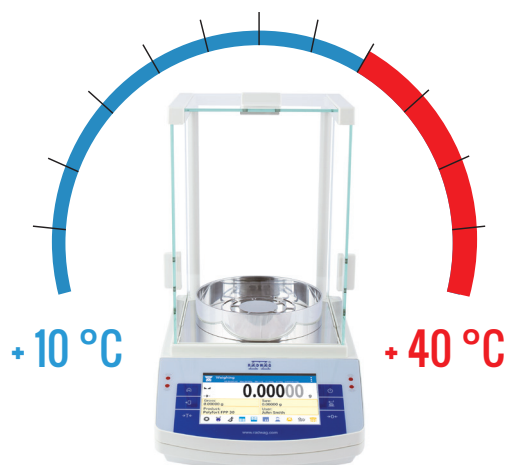
Accuracy of each weighing indication

X2 series balances with an automatic adjustment system, using an internal adjustment weight, guarantee reliable measurement. Regardless of ambient conditions, the system provides effective elimination of any balance sensitivity deviations.



Accuracy for any temperature

Accuracy is one of the most significant parameters influencing metrological characteristics of the weighing device. The production and control system designed for X2 balances monitors and adjusts for accuracy in changing temperatures. With minimized deviation of results, the X2 series ensures great measurement stability for wide temperature range.



Accuracy for any conditions

The multi-shield mechanical design of X2 series balances offers effective protection against the influence of ambient conditions. With such design, the X2 series stands for the fast and reliable measurement of either light or heavy loads, even when ambient conditions pose challenges.



Quality begins with precision



The optimization of X2 structural components provides measurements repeatability – the pivotal parameter for several analytical processes.

Speed operation time optimization



The X2 series is a product of both, measuring systems development, and progress when it comes to measuring signals monitoring methodology. With our X2 series balances, you are offered solutions that guarantee a full range of settings providing the right sensitivity for measurements performed within seconds.

Ambient conditions monitoring

Information on fluctuating ambient conditions is essential in measuring devices characterized by high resolution. For your comfort, X2 series balances have been equipped with system that signals the dynamics of temperature changes with a special symbol. This is especially useful while installing your device (acclimatization period), and when the working environment shows its changeable nature.

Weighing
AS 82/220.X2 Max 82/220g Min 1mg T=-220g e=1mg d=0.01/0.1mg

0.00000 g

Gross: 0.00000 g	Tare: 0.00000 g
Product: Polyfort FPP 30	User: John Smith

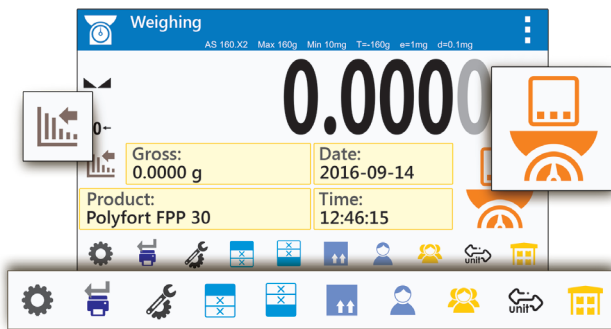
Icons: Gear, Printer, Wrench, Windows, Windows, Up/Down arrows, User, Home, Balance icon, Home icon.



Redefined functionality

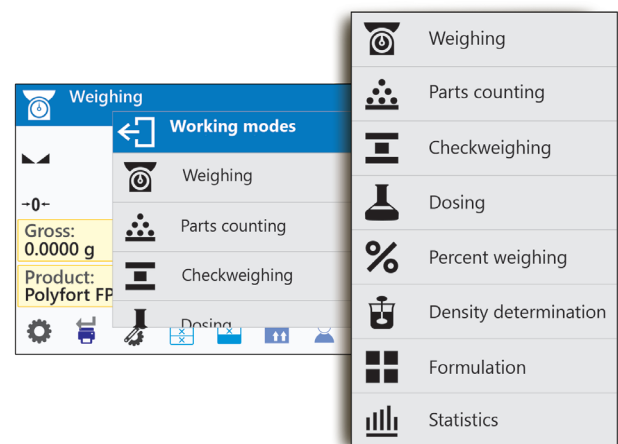
Buttons customization

Customized buttons facilitate the selection of weighing units, packaging, customers, and variable tare values adding to the fast and solid performance of the weighing process. User-designed key, tailored to the user's needs, can be assigned to a particular working mode, boosting your balance's functionality.



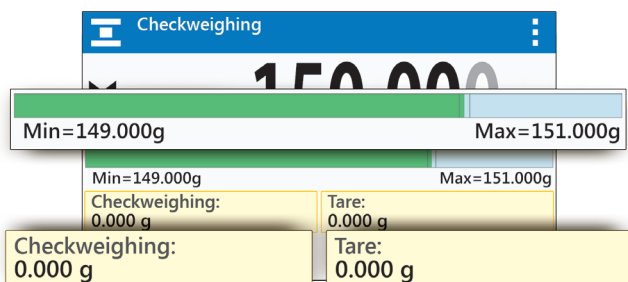
Clear information arrangement even greater ease of operation

Priority for our X2 series balances is ease of operation and intuitive communication with the user. Clear information presented by symbols provides even more user-friendly operation.



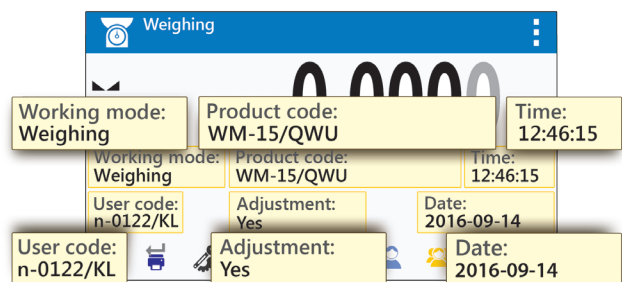
Labels design your own onscreen labels

X2 balances feature labels – pre-defined information fields providing various data, e.g. product name, user, date and time or bar graph. Labels names and values are not intended for modification but it is the user who decides which labels are to be displayed.



Text fields adapt the text field to your own needs

Text fields and labels feature similar characteristics, but text fields, unlike labels, can be freely created and configured by a user. It is possible to provide each text field with an individual name, function and value. In addition, you can decide on the particular text field size and location.



Databases

ergonomics for your weighing process

The IT structure of X2 series balances is based on structural databases. Freely programmed database content favours the creation of a dedicated information network, wherein the network precisely suits the nature of any performed process.



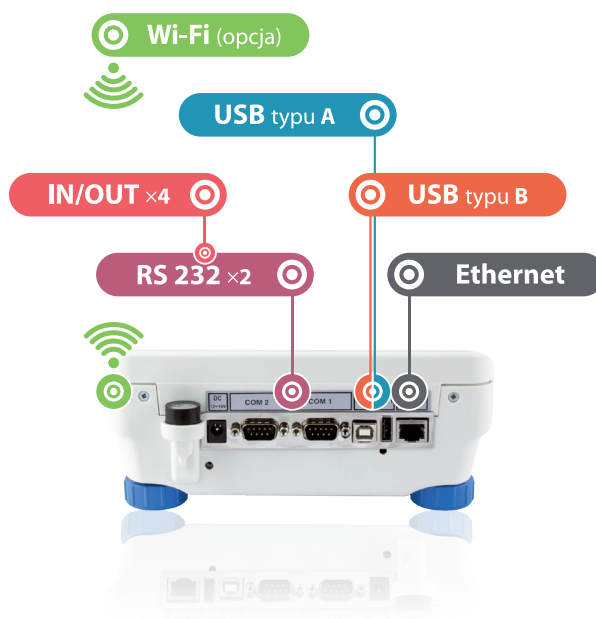
Databases comprise the following components:

- 100 users
- 100 packaging types
- 100 warehouses
- 100 formulations
- 200 formula reports
- 500 density reports
- 1 000 customers
- 5 000 products
- 50 000 weighings
- 500 000 ALIBI records

Communication

interfaces

With various means of communication, the possibilities of X2 series balances are even more enhanced when it comes to information storage. Standard cable connections are realized via USB-A and USB-B or RS 232 ports. Every single RADWAG-manufactured software offers option of Wi-Fi®.



Data safety and monitoring

Protecting data user authorization levels

Three different authorization levels provide restricted access to confidential information for particular groups of users. An administrator manages authorization levels.



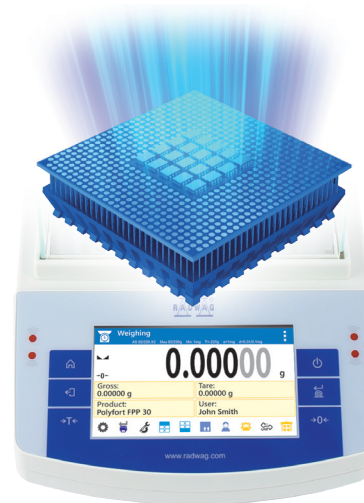
Data archiving and exchange

The USB interface facilitates the transfer of reports on processes and partial weighing to peripheral devices. This is especially useful for archiving and monitoring purposes. In addition, the USB interface allows copying of input databases.

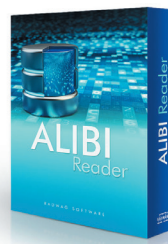


ALIBI memory secure storage of measurements

ALIBI memory offers effective data protection, and it allows 500 000 weighings. This guarantees safety and continuity of your vital data stored over long period of time.



Option of exporting data from ALIBI memory to your balance.



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

No.	Date and time	Serial number	User code	Product code	Result	Unit	Temp.	Precision	Number of last digit marker	Last digit marker	Stability
1111	2014.01.02 12:18:18	12310000	U48D4	13.1242	1046	g	0.0000	4	0	0	No
1112	2014.01.02 12:18:18	12310000	U48D4	17.1251	1046	0.0000	4	0	0	0	No
1113	2014.01.02 12:18:19	12310000	U48D4	17.1273	1046	0.0000	4	0	0	0	No
1114	2014.01.02 12:18:19	12310000	U48D4	17.1273	1046	0.0000	4	0	0	0	No
1115	2014.01.02 12:18:20	12310000	U48D4	17.1273	1046	0.0000	4	0	0	0	No
1116	2014.01.02 12:18:20	12310000	U48D4	9.9885	0461	0.0000	4	0	0	0	No
1117	2014.01.02 12:18:20	12310000	U48D4	9.9885	0461	0.0000	4	0	0	0	No
1118	2014.01.02 12:18:21	12310000	U48D4	9.9890	0461	0.0000	4	0	0	0	No
1119	2014.01.02 12:18:22	12310000	U48D4	399.50	0462	0.00	2	0	0	0	No
1120	2014.01.02 12:18:22	12310000	U48D4	399.50	0462	0.00	2	0	0	0	No
1121	2014.01.02 12:18:23	12310000	U48D4	399.50	0462	0.00	2	0	0	0	No
1122	2014.01.02 12:18:23	12310000	U48D4	399.50	0462	0.00	2	0	0	0	No
1123	2014.01.02 12:18:23	12310000	U48D4	399.50	0462	0.00	2	0	0	0	No
1124	2014.01.02 12:18:24	12310000	U48D4	199.79	g	0.00	2	0	0	0	No
1125	2014.01.02 12:18:24	12310000	U48D4	199.81	g	0.00	2	0	0	0	No
1126	2014.01.02 12:18:25	12310000	U48D4	199.82	g	0.00	2	0	0	0	No
1127	2014.01.02 12:18:25	12310000	U48D4	199.80	g	0.00	2	0	0	0	No
1128	2014.01.02 12:21:09	12310000	TRSG	199.73	g	0.00	2	0	0	0	No
1129	2014.01.02 12:21:09	12310000	TRSG	199.78	g	0.00	2	0	0	0	No
1130	2014.01.02 12:21:09	12310000	TRSG	199.71	g	0.00	2	0	0	0	No
1131	2014.01.02 12:21:10	12310000	TRSG	199.74	g	0.00	2	0	0	0	No
1132	2014.01.02 12:21:12	12310000	TRSG	0.19975	kg	0.00000	5	0	0	0	No
1133	2014.01.02 12:21:12	12310000	TRSG	0.19975	kg	0.00000	5	0	0	0	No
1134	2014.01.02 12:21:13	12310000	TRSG	0.19975	kg	0.00000	5	0	0	0	No
1135	2014.01.02 12:21:13	12310000	TRSG	0.19978	kg	0.00000	5	0	0	0	No
1136	2014.01.02 12:21:13	12310000	TRSG	0.19978	kg	0.00000	5	0	0	0	No

Reports and printouts

Customized reports

X2 series balances offer reports comprising three customized sections. As a user you have the green light for free modification of each section content.

Working mode	Weighing
Date	18.01.2019
Time	11:36:36
Balance type	AS X2
Balance ID	2035
Product	PILL
User	John Smith
Net weight	0.8020 g
Tare	0.5000 g
Gross weight	1.3010 g
----- Calibration Report -----	
Calibration type	Internal
User	John Smith
Project	124/SGW/2019
Date	18.01.2019
Time	12:56:10
Balance ID	1035
Calibration difference	0.0000 g

Signature	

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

All X2 balances cooperate with computer printers supporting PCL standard. Communication between the devices is established via USB or RS 232 interface.

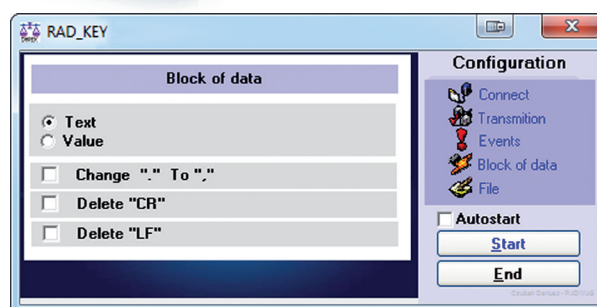
Printouts

of measurements sent to PC software

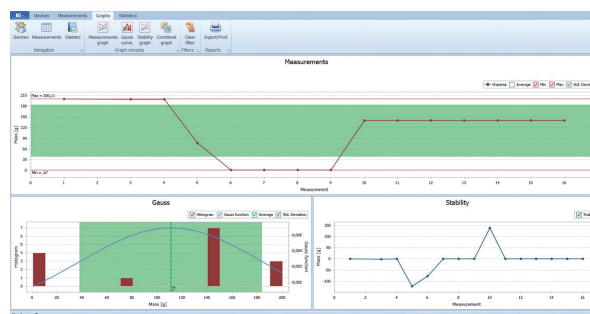
Measurements carried out by X2 series balance can be transferred directly to R-Lab and RAD-KEY PC software.



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.

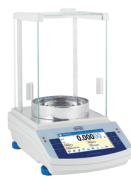




RADWAG

Wielkość
0.72182
Produkt
Użytkownik
www.radwag.com

Technical specification



AS X2



PS X2



WLC X2

Maximum capacity [Max]	60 g - 310 g	0.2 kg - 10.1 kg	0.2 kg - 21 kg
Readability [d]	0.01 mg - 0.1 mg	1 mg - 100 mg	1 mg - 1000 mg
Weighing pan dimensions	ø90 mm, ø100 mm, ø85 mm (option)	128 × 128 mm, 195 × 195 mm	ø100 mm, 128 × 128 mm, 195 × 195 mm
Stabilization time	3.5 s - 6 s	1.5 s - 2 s	2 s - 4 s
Adjustment	Internal	Internal	Internal
Display	5" colour capacitive touchscreen	5" colour capacitive touchscreen	5" colour capacitive touchscreen
Communication Interfaces	USB-A, USB-B, 2×RS232, Ethernet, Wi-Fi®	USB-A, USB-B, 2×RS232, Ethernet, Wi-Fi®	USB-A, USB-B, 2×RS232, Ethernet, Wi-Fi®



MA X2.A, MA X2.IC.A

Maximum capacity [Max]	50 g - 210 g
Readability [d]	0.1 mg - 1 mg
Weighing pan dimension	ø90 mm, h = 8 mm
Moisture readout accuracy	0,0001 % - 0,001 %
Drying temperature range	max 160°C, max 250°C (opcional)
Adjustment	External (MA X2.A), Internal (MA X2.IC.A)
Heating module	IR emitter, halogen (option), metal heater (option)
Display	5" colour capacitive touchscreen
Communication Interfaces	USB-A, USB-B, RS232, Ethernet, Wi-Fi®
Automatically opened drying chamber	YES

Optional equipment

- Barcode readers,
- PCL printers,
- USB keyboard,
- PC Software: R-Lab, RAD-KEY and ALIBI Reader,
- Under-pan weighing rack,
- Anti-vibration tables,
- Draft shield,
- LCD WD-6 display,
- Density determination kit for solids and liquids.

Optional equipment accessibility is conditioned by a particular model.

PC Software

- R-Lab - Scales preview, weighings graphs and statistics graphs.
- RAD-KEY - Capturing balance data, inserting the data into a spreadsheet cell.
- ALIBI Reader - Capturing balance data recorded in ALIBI memory.

Read QR code

and view complete technical specification of all X2 series balances





RADWAG Balances and Scales

www.radwag.com