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

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 SY

AS.X2
analytical balances

Maximum capacity [Max]:	up to 310 g
Readability [d]:	from 0.01 mg
Weighing pan dimensions:	ø90 mm, ø100 mm, ø85 mm (option)

PS.X2
precision balances

Maximum capacity [Max]:	up to 6 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, ø100 mm

APP.X2
precision balances

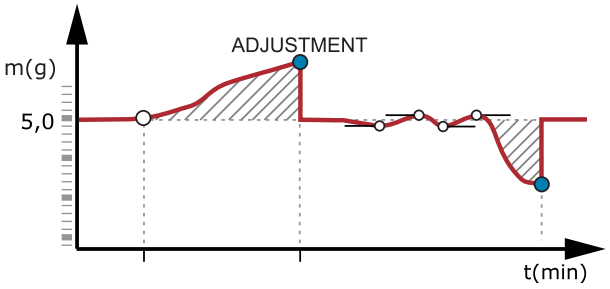
Maximum capacity [Max]:	up to 50 kg
Readability [d]:	from 0.01 g
Weighing pan dimensions:	205 × 190 mm, 348 × 260 mm

NERGY

The X2 series as a standard for quality

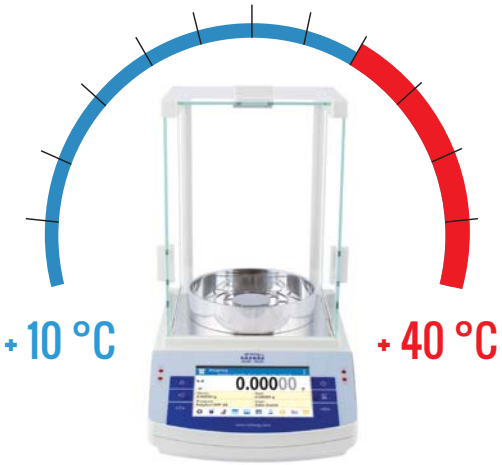
Accuracy of each weighing indication

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

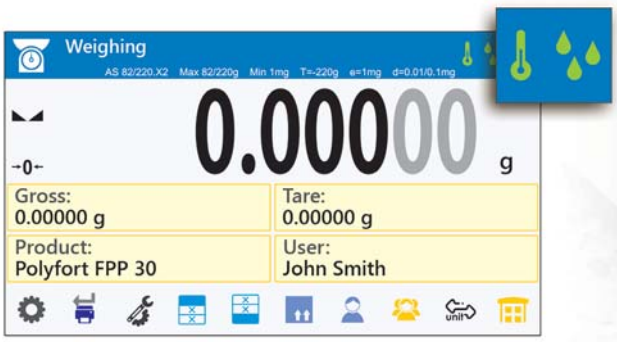
The optimization of X2 structural components provides measurements repeatability – the pivotal parameter for several analytical processes.

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.



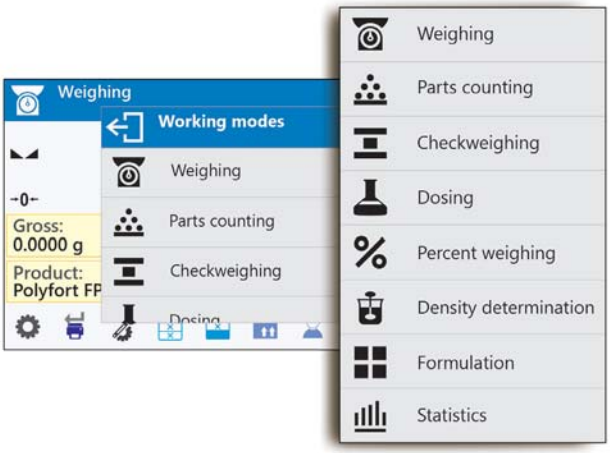
Redefined functionality

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.

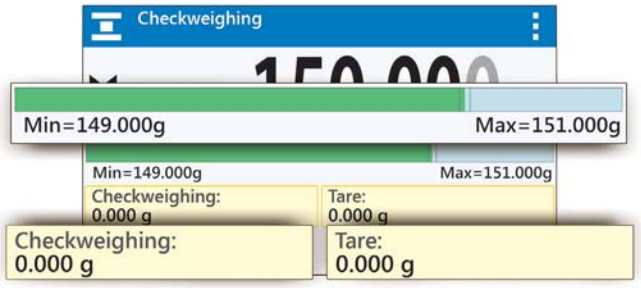
Clear information arrangement even greater ease of operation

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.



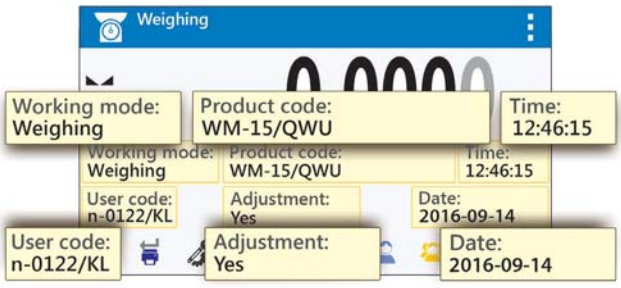
Labels design your own onscreen labels

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

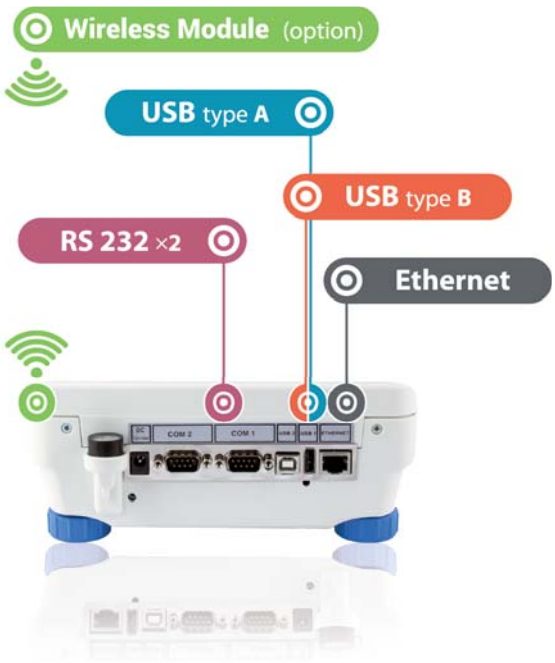
The IT structure of X2 series balances is based on structural databases. Freely programmed database content favours the creation of a dedicated information network, wherein the network precisely suits the nature of any performed process.

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. As for wireless connection, Wireless Module networking technology is used by any RADWAG-manufactured software.



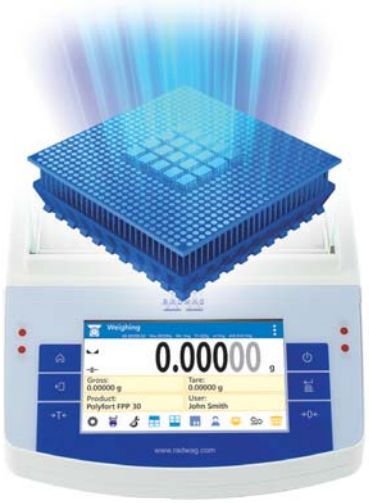
Data safety and monitoring

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.

ALIBI memory secure storage of measurements

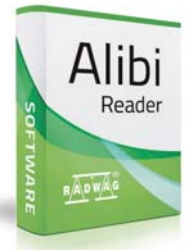
ALIBI memory offers effective data protection, and it allows 500 000 weighings. This guarantees safety and continuity of your vital data stored over long period of time.



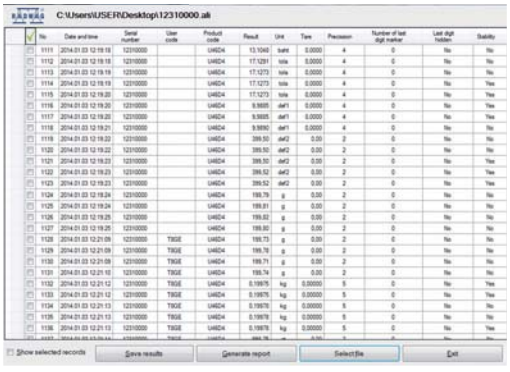
Option of exporting data from ALIBI memory to your balance.

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 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.



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	18.09.2016
Time	11:36:36
Balance type	AS 220.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/2016
Date	18.09.2016
Time	12:56:10
Balance ID	1035
Calibration difference	0.0000 g

Signature

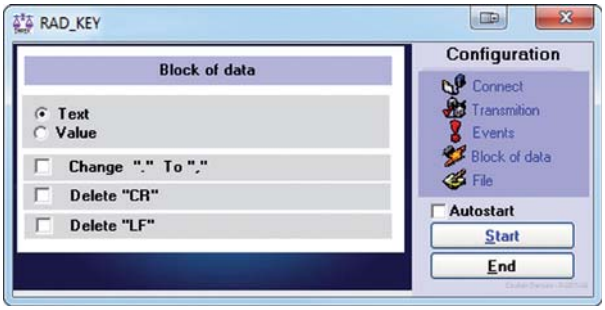
Sample report divided into three configurable sections: header, GLP printout and footer.

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

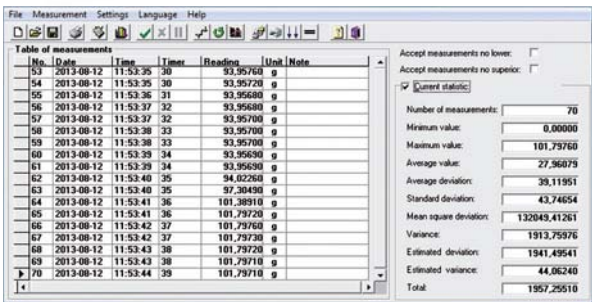
Printouts of measurements sent to PC software

Measurements carried out by X2 series balance can be transferred directly to RAD-KEY and PW-WIN 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.



PW-WIN PC Software is designed to present measurements in a visual form, produce statistics, and export data to a spreadsheet.



RADWAG
0.72182
www.radwag.com

Technical specification

AS.X2

PS.X2

WLC.X2

APP.X2

	AS.X2	PS.X2	WLC.X2	APP.X2
Maximum capacity [Max]	60 g - 310 g	200 g - 6000 g	0,2 kg - 21 kg	6 kg - 50 kg
Readability [d]	0.01 mg - 0.1 mg	1 mg - 100 mg	0,001 g - 1 g	0.01g - 5 g
Weighing pan dimensions	ø90 mm, ø100 mm, ø85 mm (option)	128 × 128 mm, 195 × 195 mm	ø100 mm, 128 × 128 mm, 195 × 195 mm	348 × 260 mm, 205 × 190 mm
Stabilization time	3.5 s - 6 s	1.5 s - 2 s	2 s - 4 s	2 s - 3 s
Adjustment	internal (automatic)	internal (automatic)	external, internal (automatic)	internal (automatic)
Display	5" colour touchscreen	5" colour touchscreen	5" colour touchscreen	5" colour touchscreen
Communication Interfaces	2×RS232, USB-A, USB-B, Ethernet, Wireless Module	2 × RS 232, USB-A, USB-B, Ethernet, Wireless Module	2 × RS 232, USB-A, USB-B, Wireless Module	2 × RS 232, USB-A, USB-B, Ethernet, Wireless Module
Verification	●	●	○	○

MA X2

	MA X2
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 (option)
Heating module	IR emitter, halogen (option)
Display	5" colour touchscreen
Communication Interfaces	RS 232, USB-A, USB-B, Wireless Module

Read QR code and view complete technical specification of all X2 series balances

Optional equipment

- Barcode readers,
- PCL printers,
- USB keyboard,
- PC Software: PW-WIN, 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

- PW-WIN - Cooperation with a computer, measurements presentations, statistics.
- RAD-KEY - Capturing balance data, inserting the data into a spreadsheet cell.
- ALIBI Reader - Capturing balance data recorded in ALIBI memory.

Features:

5" colour capacitive touchscreen

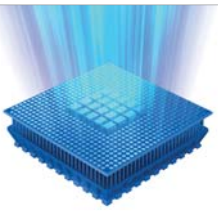
Databases

Wide operating temperature range

Interfaces: 2×RS232, Ethernet, USB-A, USB-B, WiFi*

*option

Sensors for touch-free operation



ALIBI Memory

Ambient conditions monitoring

Customized reports and printouts

Functions:

- Parts counting
- Checkweighing
- Dosing
- Formulation
- Percent weighing
- Statistics
- Animal weighing
- Peak hold
- Density Determination
- GLP Procedures
- Under-pan weighing
- Autotest
- Infrared sensors
- Ambient conditions monitoring
- Newton unit measurements
- Units
- ALIBI memory
- Cooperation with titrators

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