RADWAG®

LABORATORY BALANCES

X7

radwag.com

X7 SERIES
LABORATORY BALANCES

X7 series laboratory balances are advanced solutions created technology reserved mainly for professional levels.

What you get is a professional device in an economic budget class, providing the user with the highest weighing accuracy and maximum operating comfort thanks to solutions such as:

- 7" colour touch screen display,
- screen personalisation via widgets
- multilingual interactive menu,
- non-contact operating sensors,
- GLP and GMP compliant,
- dynamic sample weight control (bargraph),
- statistics, recipes, reports and printouts,
- unlimited communication possibilities,
- ALIBI memory with recording of measurements,
- extensive databases,
- highest operating comfort,
- internal calibration (except MA X7.A).

Current mode setting menu

Quick access to a selection of working mods and their settings.

Touch-free operation sensors

Infrared sensors to provide non-contact operation of the balance within a user-defined range by programming selected functions.

Status bar

A field containing information on the currently used operating mode as well as on the most important metrological parameters of the balance, such as the model, maximum and minimum load, tare range, elementary unit and accuracy of reading.

Weighing result field

Large, clear weighing result field as the most important information in the balances, together with information on stabilisation.

Information fields and widgets

Customisable information that is displayed on the screen according to user preference.

Quick access buttons for balance functions and settings

Quick access to basic functions such as zeroing, taring or generating printouts.

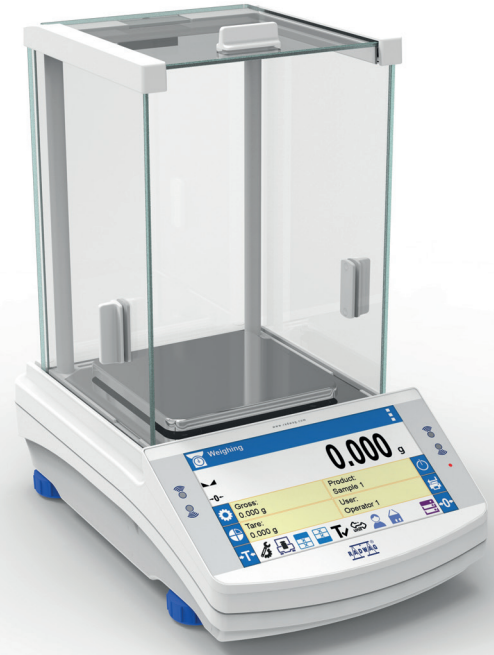
ANALYTICAL BALANCES

AS X7

Maximum capacity [Max]:
from 60 to 3100 g

Readability [d]:
from 0.01 to 1 mg

Weighing pan dimensions:
ø90 mm, ø100 mm, ø85 mm (option)



PRECISION BALANCES

PS X7, WLC X7

Maximum capacity [Max]:
from 200 to 21000 g

Readability [d]:
from 1 to 10 mg

Weighing pan dimensions:
128x128 mm, 195x195 mm, ø100 mm

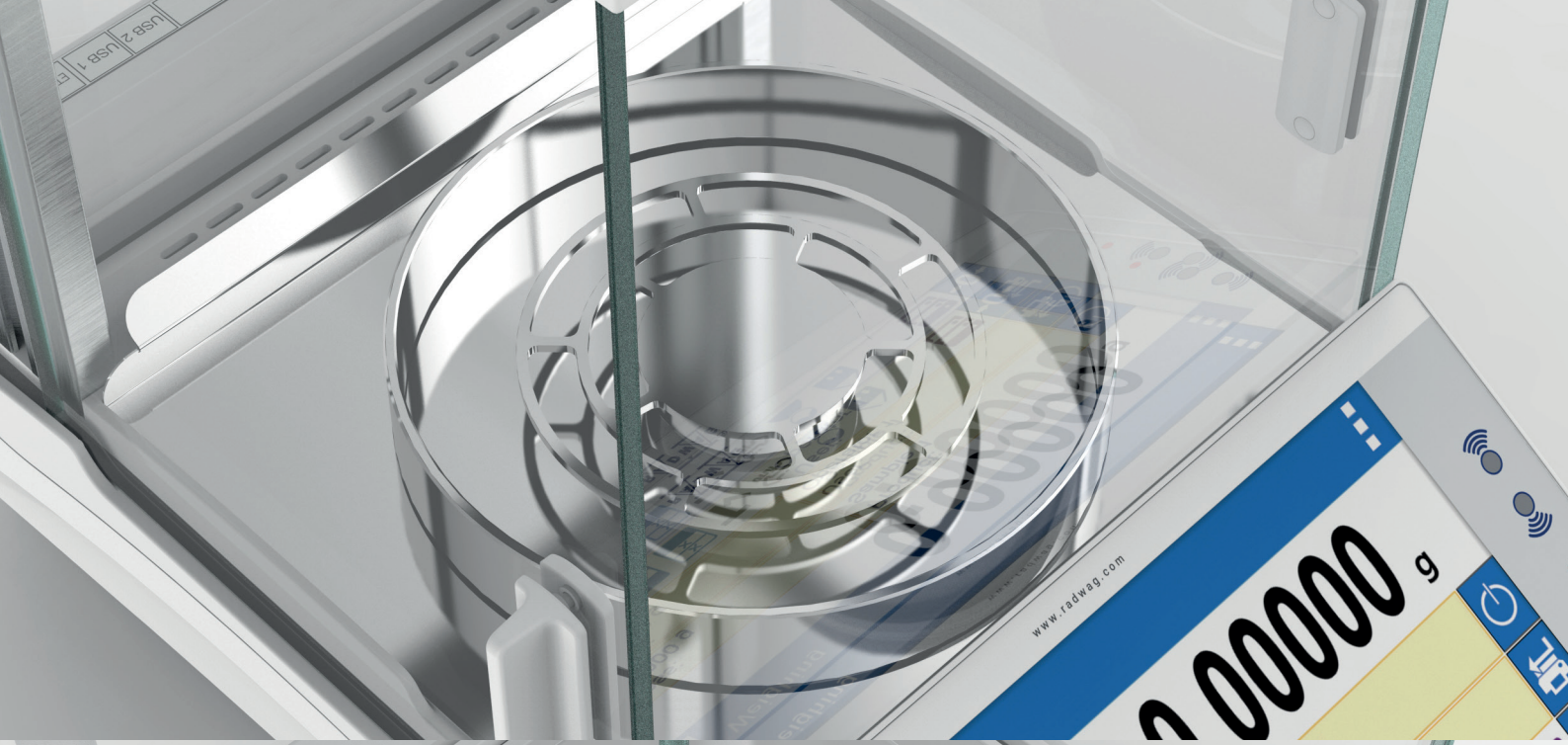
MOISTURE ANALYZERS

MA X7

Maximum capacity [Max]:
from 50 to 210 g

Readability [d]:
from 0.1 to 1 mg

Weighing pan dimensions:
ø90 mm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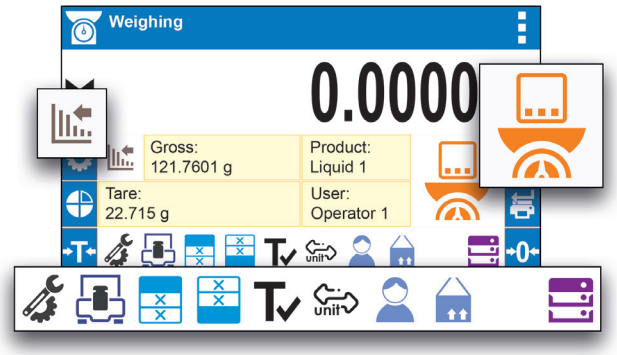
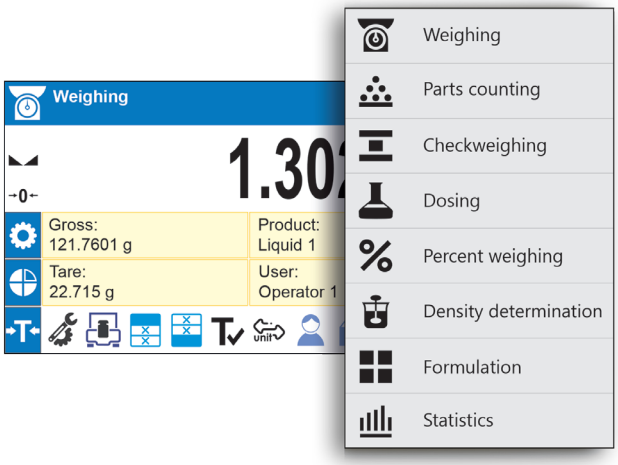




Buttons adapted to the needs of the user

They allow a fast and reliable organisation of the weighing process through the selection of units of measurement, packages, customers or variable tare values. Thanks to the individually configurable set of buttons, they can be associated with a specific operating mode.

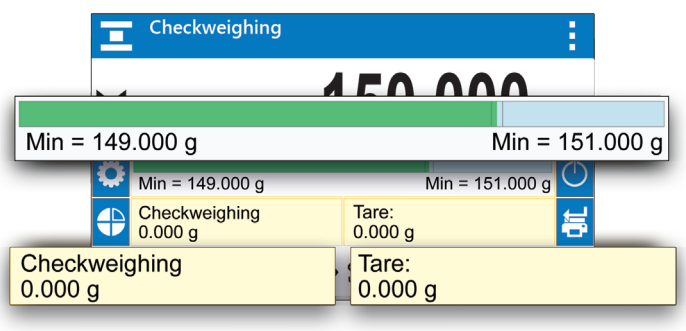
Transparency of information for greater working comfort

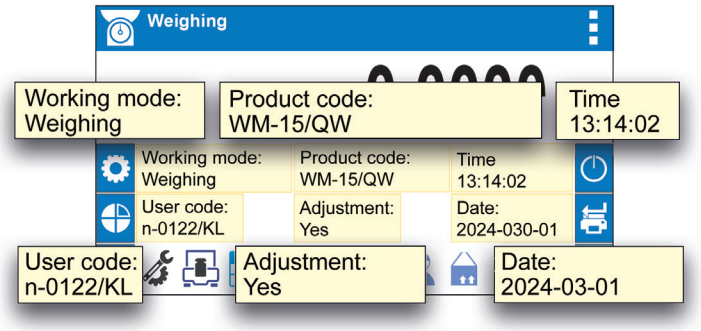
The X7 balances focus on easy operation and intuitive communication with the user. The clear layout of information presented pictorially with icons facilitates the work with the balance, making it more user-friendly.

Databases and ergonomics in the weighing process

The IT structure of the X7 series balances operates using structured databases. The free programming of their contents allows the creation of a dedicated network of information that is precisely tailored to the specifics of the process being performed. The databases include components such as:

- 100 users
- 100 packages
- 100 warehouses
- 100 recipes
- 500 recipe reports
- 500 density reports
- 1 000 customers
- 5 000 goods
- 50 000 weighings
- 512 000 ALIBI records





Labels individually selected by the user

The labels on the X7 balances are predefined information fields displaying a variety of data, e.g. the name of the goods, the user, the date and time or the indication bargraph. It is up to the user of the balance to decide which of these are to be displayed on the Display.

Freely configurable text fields

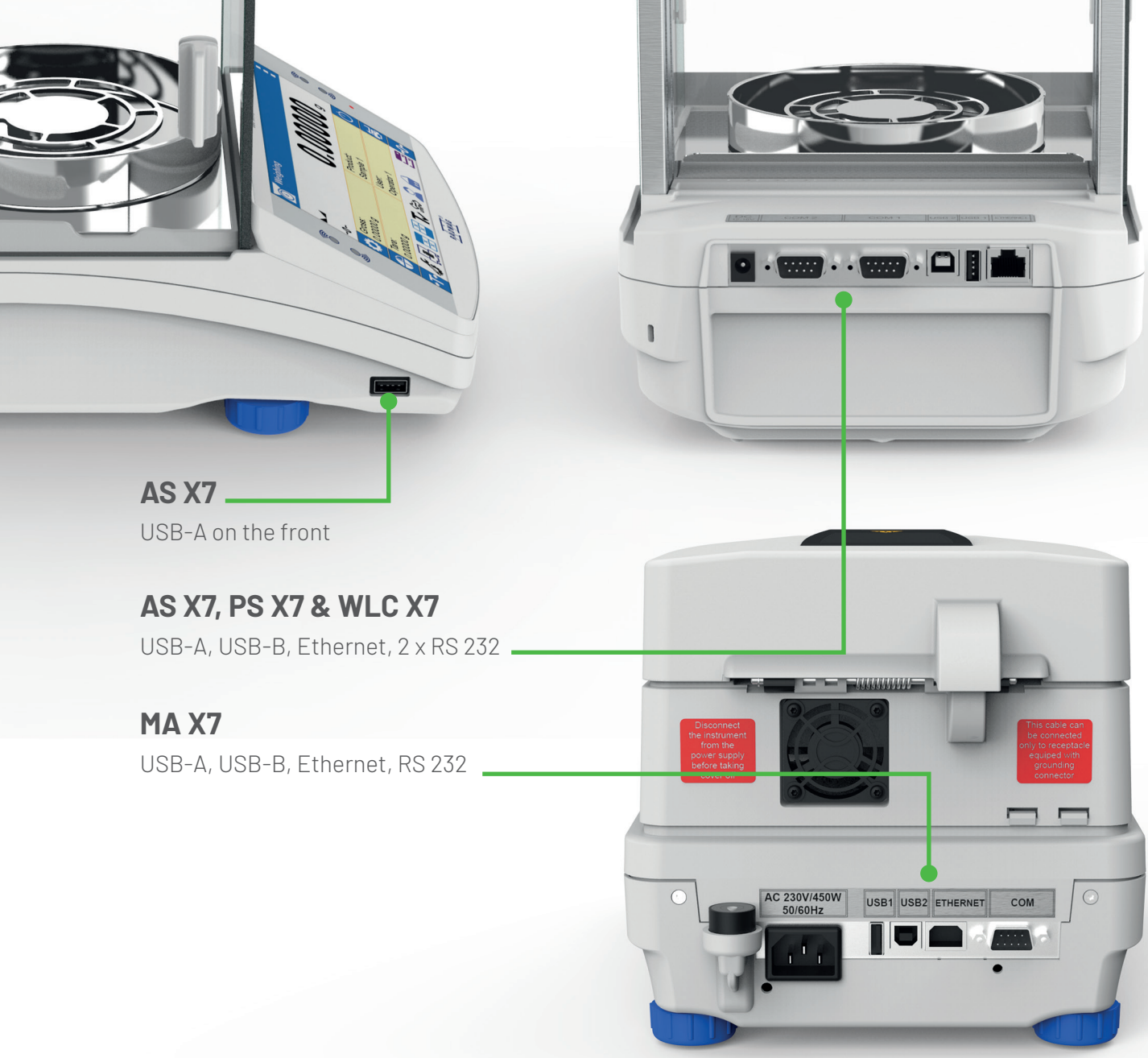
Text fields work in a similar way to labels. They can be freely created and configured by the user. Each field can be individually named, assigned any function and value, and its size and position on the Display can be defined.

Accuracy of weighing at all temperatures and under all conditions

The production and control system of the X7 balances includes the process of observing and adjusting the accuracy in varying temperatures.

This is one of the most important parameters determining the metrological properties of the instrument. By minimising indication deviations, X7 balances ensure high measurement stability over a wide temperature range.

The X7 balances guarantee speed and accuracy of measurements of small and large masses, even under adverse conditions.



AS X7

USB-A on the front

AS X7, PS X7 & WLC X7

USB-A, USB-B, Ethernet, 2 x RS 232

MA X7

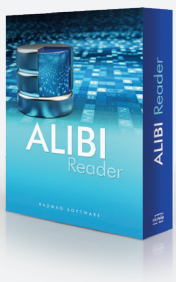
USB-A, USB-B, Ethernet, RS 232

Communication interfaces

The integrity of the device in terms of information gathering is not always sufficient, which is why the X7 range of balances is equipped with a variety of communication options. Typical cable connections use USB-A, USB-B, Ethernet or RS 232 ports. The X7 series also has the option of connecting to other devices via Wi-Fi.

Security and data control

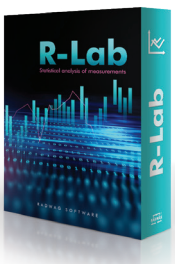
ALIBI memory guarantees data security and allows for the storage of 512000 records of weighings. Using the ALIBI Reader PC application, it is possible to view all weighings stored in the balance's memory, print and save reports. Weighing reports can be sent to to external devices.

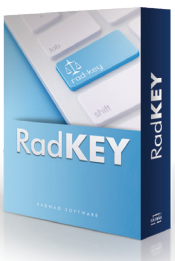


Reports and printouts that can be freely configured

On the X7 series balances, the weighing reports are divided into three configurable sections. The layout of each section can be freely designed in terms of content.

All X7 balances co-operate with dedicated RADWAG RTP thermal receipt printers wirelessly via Wi-Fi and other PCL-enabled computer printers via USB interface.





Printouts of measurements sent to computer programs

Measurements of the X7 series balances can be sent directly to RAD-KEY and R-Lab software.

Technical specification

	AS X7	PS X7
Maximum capacity [Max]	60 g – 3.1 kg	200 g – 10100 g
Readability [d]	0.01 mg – 1 mg	1 mg – 10 mg
Standard repeatability [5% Max]	0.01 mg – 0.5 mg	0.5 mg – 5 mg
Standard repeatability [Max]	0.017 mg – 0.6 mg	1 mg – 12 mg
Linearity	± 0.05 mg – 4 mg	± 2 mg – 20 mg
Stabilization time	2 s – 3 s	1.5 s – 3 s
Levelling system	Semi-automatic – LevelSENSING	Manual
Display	7" touchscreen	7" touchscreen
Weighing pan dimensions	ø90 mm, ø100 mm, ø85 mm (option)	128 x 128 mm, 195 x 195 mm
Communication interfaces	2 x USB-A, USB-B, Ethernet, 2 x RS 232	USB-A, USB-B, Ethernet, 2 x RS 232
Full technical specification		

Working modes

Weighing

Parts counting

Checkweighing

Dosing

Percent weighing

Density determination

Animal weighing

Formulations

Pipetting

Statistics

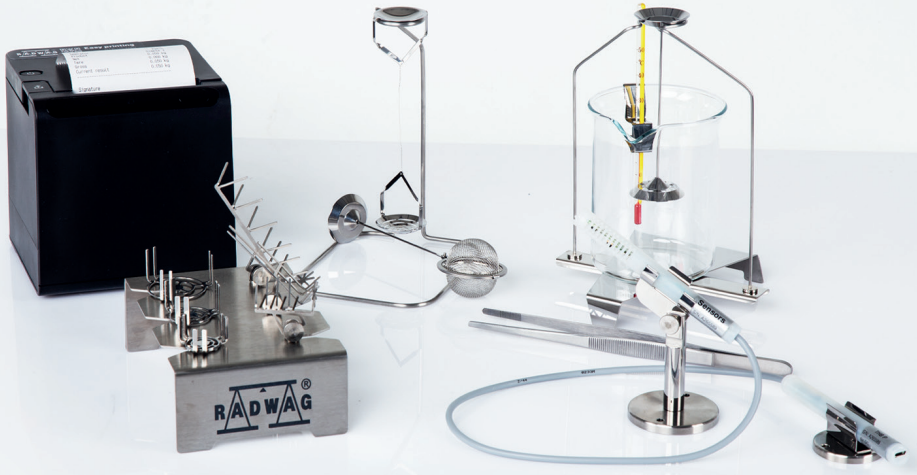
Moisture Analyzer

Peak hold

WLC X7		MA X7
200 g – 10100 g	**Maximum capacity [Max]**	50 g –210 g
1 mg – 10 mg	**Readability [d]**	0.1 mg – 1 mg
0.5 mg – 5 mg	**Readability of moisture content**	0.001 % – 0.0001 %
1 mg – 12 mg	**Repeatability of moisture content**	+/-0.05% (sample ~ 2g), +/-0.01% (sample ~ 10g)
± 2 mg – 20 mg	**Drying temperature range**	Max 160 °C or 250 °C
1.5 s – 3 s	**Heating module**	Metal heater, infrared heater or halogen
Manual	**Levelling system**	Manual
7″ touchscreen	**Display**	7″ touchscreen
128 x 128 mm, 195 x 195 mm	**Weighing pan dimensions**	ø90, h= 8 mm
USB-A, USB-B, Ethernet, 2 x RS 232	**Communication interfaces**	USB-A, USB-B, Ethernet, RS 232
	Full technical specification	

Accessories

- Professional weighing workstations
- Anti-vibration tables
- Pipette calibration stations
- Density determination kits
- Receipt printers
- Ionisers
- Sample and filter holders
- Weighing bottles
- Barcode scanners
- Software
- THBR 2.0 system
- Additional displays
- Additional modules
- Protective covers
- Converters
- Cables
- Power supplies
- Carrying cases



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