



# X7 Series Laboratory Balances

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**

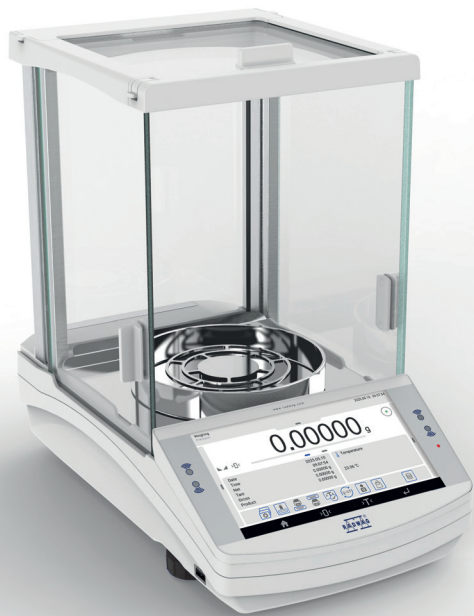
Large, clear weighing result field as the most important information in the balances, together with information on stabilisation.

### **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)

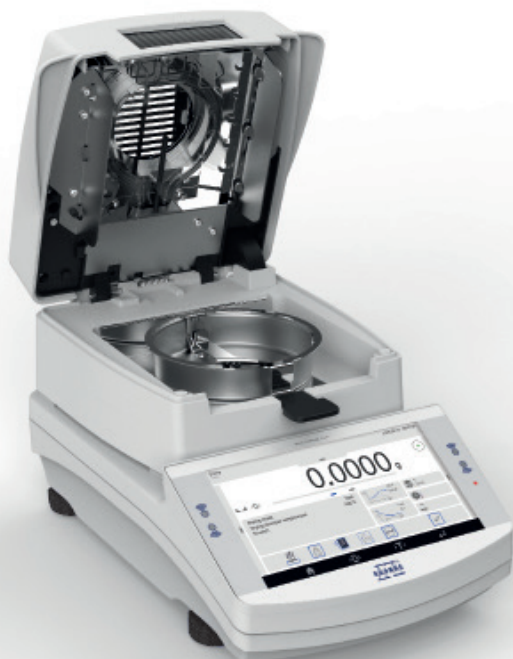


## PRECISION BALANCES PS X7, WLC X7

**Maximum capacity [Max]:**  
from 200 to 21000 g

**Readability [d]:**  
from 1 to 10 mg

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

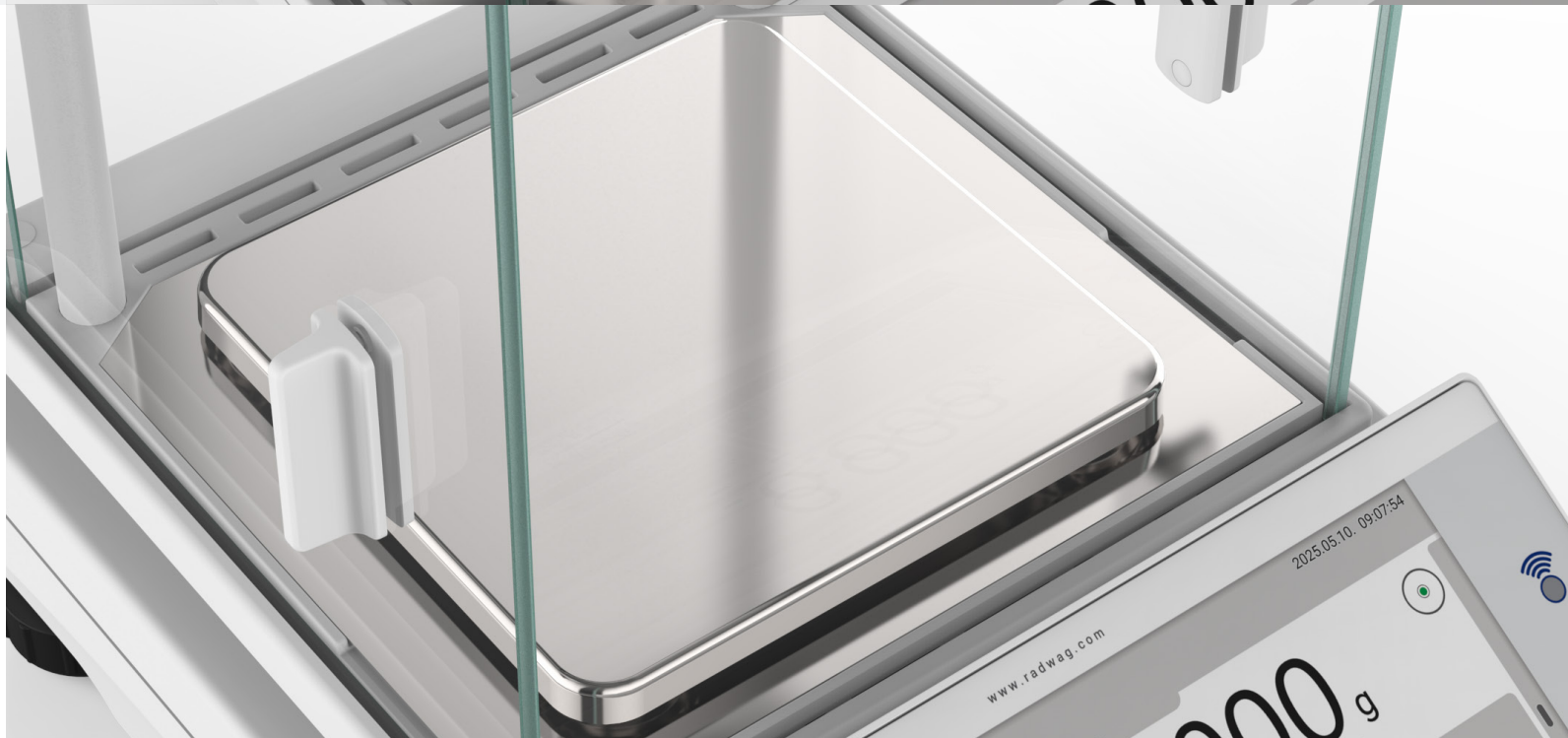


## MOISTURE ANALYZERS MA X7

**Maximum capacity [Max]:**  
from 50 to 210 g

**Readability [d]:**  
from 0.1 to 1 mg

**Weighing pan dimensions:**  
ø90 mm



# Light Display Mode

Clear weighing result

Always visible  
necessary statuses

11 working modes

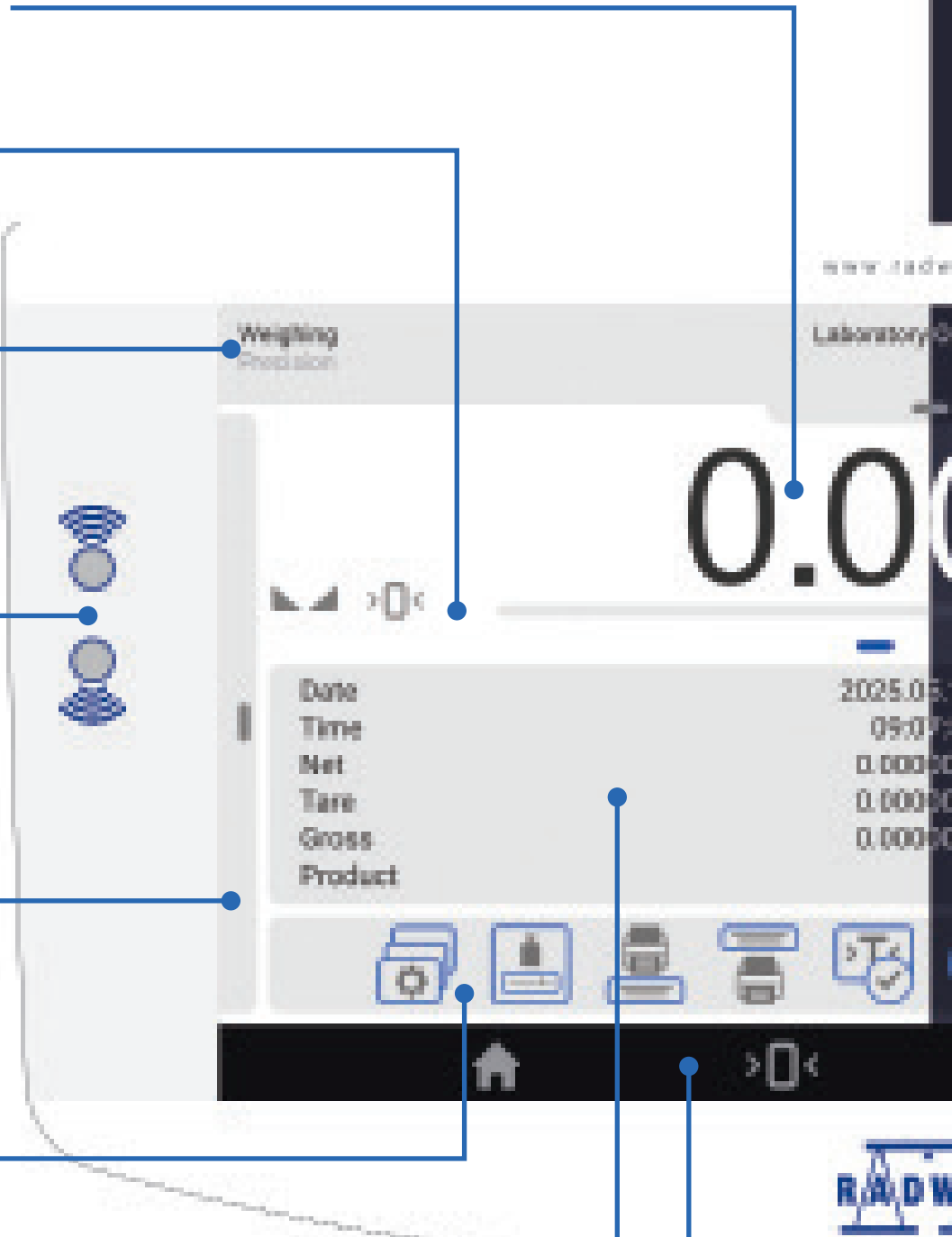
Touch-free  
operation (IR sensor)

Slide-out quick  
access panel

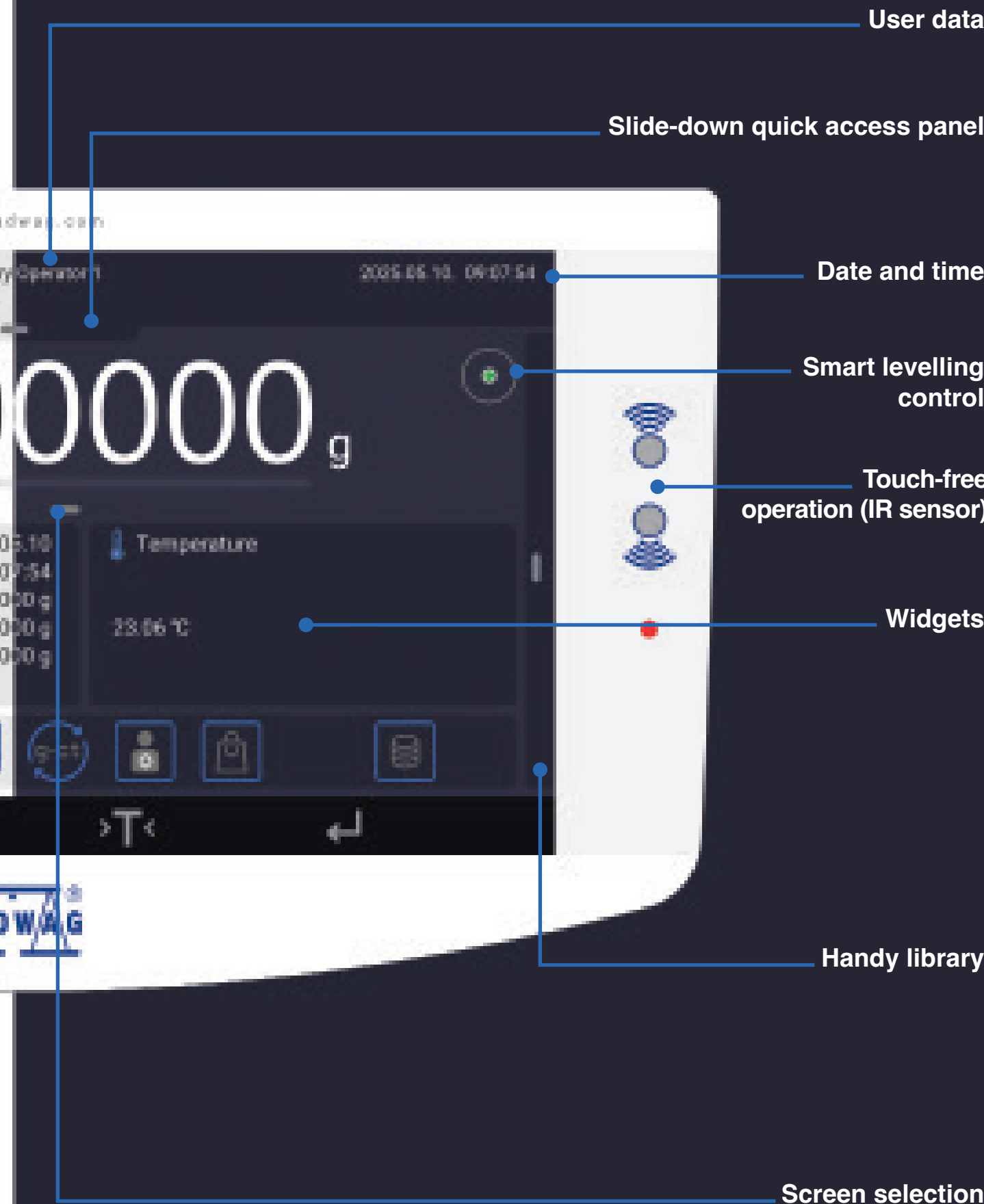
Quick access  
to commands

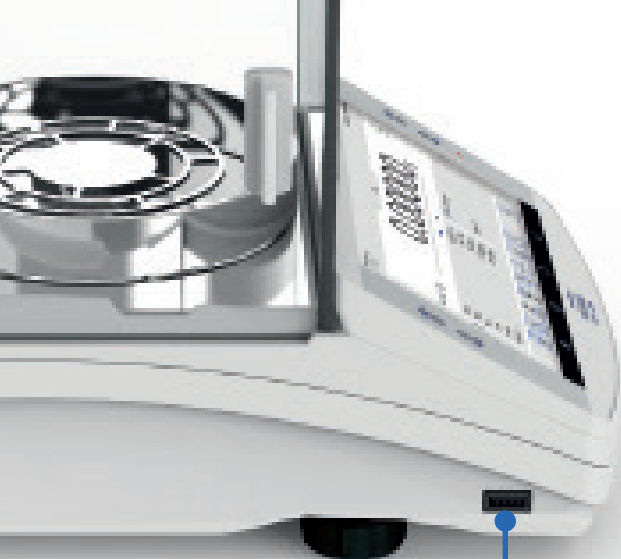
Customized data

Main function bar



# Dark Display Mode





### 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 external devices.





Working mode      Weighing  
Date                18.02.2024  
Time                14:10:18  
Balance type      AS 120.X7  
Balance ID        4100  
Product            Pill 02

-----  
User                Operator 1  
Net                 0.30200 g  
Tare                0.50000 g  
Gross              0.80200 g

-----  
Adjustment        Internal  
User                Operator 1  
Project            123/SGW/2024  
Date                18.02.2024  
Time                14:15:10  
Balance ID        4100

-----  
Signature



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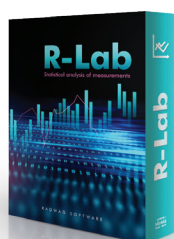
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## Reports and Printouts that Can be Freely Configured

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.



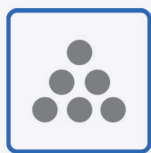
## Printouts of Measurements Sent to computer programs

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

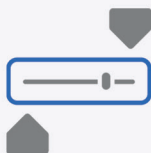
## Working modes



Weighing



Parts counting



Percent weighing



Animal weighing



Peak hold





## 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



# Technical Specification

| Model                     | Product code | Maximum capacity [Max] | Readability [d] | Standard Repeatability [5% Max] | Stabilization time |
|---------------------------|--------------|------------------------|-----------------|---------------------------------|--------------------|
| ANALYTICAL BALANCES AS X7 |              |                        |                 |                                 |                    |
| AS 60/220.X7              | WL-113-0009  | 60/220 g               | 0.01/0.1 mg     | 0.01 mg                         | 2 s                |
| AS 62.X7                  | WL-113-0010  | 62 g                   | 0.01 mg         | 0.01 mg                         | 2 s                |
| AS 82/220.X7              | WL-113-0011  | 82/220 g               | 0.01/0.1 mg     | 0.01 mg                         | 2 s                |
| AS 120.X7                 | WL-113-0002  | 120 g                  | 0.01 mg         | 0.01 mg                         | 2 s                |
| AS 160.X7                 | WL-113-0003  | 160 g                  | 0.1 mg          | 0.06 mg                         | 2 s                |
| AS 220.X7                 | WL-113-0004  | 220 g                  | 0.1 mg          | 0.06 mg                         | 2 s                |
| AS 310.X7                 | WL-113-0005  | 310 g                  | 0.1 mg          | 0.07 mg                         | 2.5 s              |
| AS 520.X7                 | WL-113-0008  | 520 g                  | 0.1 mg          | 0.07 mg                         | 2.5 s              |
| AS 3100.X7                | WL-113-0006  | 3100 g                 | 1 mg            | 0.5 mg                          | 2 s                |
| PRECISION BALANCES PS X7  |              |                        |                 |                                 |                    |
| PS 200/2000.X7            | WL-226-0011  | 200/2000 g             | 1/10 mg         | 0.5/5 mg                        | 2/1.5 s            |
| PS 210.X7                 | WL-226-0012  | 210 g                  | 1 mg            | 0.5 mg                          | 2 s                |
| PS 360.X7                 | WL-226-0014  | 360 g                  | 1 mg            | 0.5 mg                          | 2 s                |
| PS 600.X7                 | WL-226-0015  | 600 g                  | 1 mg            | 0.5 mg                          | 2 s                |
| PS 750.X7                 | WL-226-0016  | 750 g                  | 1 mg            | 0.5 mg                          | 2 s                |
| PS 1000.X7                | WL-226-0010  | 1000 g                 | 1 mg            | 0.5 mg                          | 2 s                |
| PS 2100.X7.M              | WL-226-0003  | 2100 g                 | 10 mg           | 5 mg                            | 1.5 s              |
| PS 3000.X7                | WL-226-0013  | 3000 g                 | 1 mg            | 0.5 mg                          | 3 s                |
| PS 3500.X7.M              | WL-226-0004  | 3500 g                 | 10 mg           | 5 mg                            | 1.5 s              |
| PS 4500.X7.M              | WL-226-0005  | 4500 g                 | 10 mg           | 5 mg                            | 1.5 s              |
| PS 6100.X7.M              | WL-226-0007  | 6100 g                 | 10 mg           | 5 mg                            | 1.5 s              |
| PS 8100.X7.M              | WL-226-0008  | 8100 g                 | 10 mg           | 5 mg                            | 1.5 s              |
| PS 10100.X7.M             | WL-226-0001  | 10100 g                | 10 mg           | 5 mg                            | 1.5 s              |
| PRECISION BALANCES WLC X7 |              |                        |                 |                                 |                    |
| WLC 0.2.X7                | WL-227-0001  | 0.2 kg                 | 0.001 g         | 0.0014 g                        | 2 s                |
| WLC 2.X7                  | WL-227-0005  | 2 kg                   | 0.01 g          | 0.015 g                         | 2 s                |
| WLC 6.X7                  | WL-227-0007  | 6 kg                   | 0.1 g           | 0.1 g                           | 2 s                |
| WLC 10.X7                 | WL-227-0010  | 10 kg                  | 0.1 g           | 0.08 g                          | 2 s                |
| WLC 1/10.X7               | WL-227-0009  | 10 kg                  | 0.01/0.1 g      | 0.015/0.08 g                    | 4/2 s              |
| WLC 20.X7                 | WL-227-0011  | 20 kg                  | 0.1 g           | 0.1 g                           | 3 s                |
| WLC 21.X7                 | WL-227-0012  | 21 kg                  | 1 g             | 0.8 g                           | 3 s                |



| Weighing pan dimensions               | Adjustment           | Display               | Communication interfaces                                    |
|---------------------------------------|----------------------|-----------------------|-------------------------------------------------------------|
| ø90 mm open-work pan, ø85 mm (option) | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| ø90 mm open-work pan, ø85 mm (option) | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| ø90 mm open-work pan, ø85 mm (option) | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| ø90 mm open-work pan, ø85 mm (option) | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| ø100 mm                               | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| ø100 mm                               | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| ø100 mm                               | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| ø100 mm                               | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| ø90 mm open-work pan                  | internal (automatic) | 7" colour touchscreen | 2xRS232, 2xUSB-A (interchangeable), USB-B, Ethernet, Wi-Fi® |
| 128x128 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 128x128 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 128x128 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 128x128 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 128x128 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 128x128 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 128x128 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
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| 195x195 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | internal (automatic) | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| ø100 mm                               | external             | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | external             | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | external             | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | external             | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | external             | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | external             | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |
| 195x195 mm                            | external             | 7" colour touchscreen | 2xRS232, USB-A, USB-B, Ethernet, Wi-Fi®                     |

Wi-Fi® is a registered trademark of Wi-Fi Alliance®.

# Technical Specification

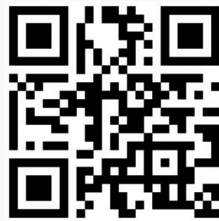
| Model                                                   | Product code | Maximum capacity [Max] | Readability [d] | Moisture content readability | Drying temperature |
|---------------------------------------------------------|--------------|------------------------|-----------------|------------------------------|--------------------|
| MOISTURE ANALYZERS WITH INTERNAL CALIBRATION MA X7.IC.A |              |                        |                 |                              |                    |
| MA 50/1.X7.IC.A                                         | WL-308-0028  | 50 g                   | 0.1 mg          | 0.0001 %                     | Max 160 °C         |
| MA 50/1.X7.IC.A.NS                                      | WL-308-0029  | 50 g                   | 0.1 mg          | 0.0001 %                     | Max 160 °C         |
| MA 50/1.X7.IC.A.WH                                      | WL-308-0001  | 50 g                   | 0.1 mg          | 0.0001 %                     | Max 250 °C         |
| MA 50.X7.IC.A                                           | WL-308-0018  | 50 g                   | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 50.X7.IC.A.NS                                        | WL-308-0019  | 50 g                   | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 50.X7.IC.A.WH                                        | WL-308-0020  | 50 g                   | 1 mg            | 0.001 %                      | Max 250 °C         |
| MA 110.X7.IC.A                                          | WL-308-0007  | 110 g                  | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 110.X7.IC.A.NS                                       | WL-308-0008  | 110 g                  | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 110.X7.IC.A.WH                                       | WL-308-0009  | 110 g                  | 1 mg            | 0.001 %                      | Max 250 °C         |
| MA 200/1.X7.IC.A                                        | WL-308-0035  | 200 g                  | 0.1 mg          | 0.0001 %                     | Max 160 °C         |
| MA 200/1.X7.IC.A.NS                                     | WL-308-0036  | 200 g                  | 0.1 mg          | 0.0001 %                     | Max 160 °C         |
| MA 200/1.X7.IC.A.WH                                     | WL-308-0037  | 200 g                  | 0.1 mg          | 0.0001 %                     | Max 250 °C         |
| MA 210.X7.IC.A                                          | WL-308-0043  | 210 g                  | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 210.X7.IC.A.NS                                       | WL-308-0044  | 210 g                  | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 210.X7.IC.A.WH                                       | WL-308-0045  | 210 g                  | 1 mg            | 0.001 %                      | Max 250 °C         |
| MOISTURE ANALYZERS WITH EXTERNAL CALIBRATION MA X7.A    |              |                        |                 |                              |                    |
| MA 50/1.X7.A                                            | WL-308-0024  | 50 g                   | 0.1 mg          | 0.0001 %                     | Max 160 °C         |
| MA 50/1.X7.A.NS                                         | WL-308-0025  | 50 g                   | 0.1 mg          | 0.0001 %                     | Max 160 °C         |
| MA 50/1.X7.A.WH                                         | WL-308-0026  | 50 g                   | 0.1 mg          | 0.0001 %                     | Max 250 °C         |
| MA 50.X7.A                                              | WL-308-0014  | 50 g                   | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 50.X7.A.NS                                           | WL-308-0015  | 50 g                   | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 50.X7.A.WH                                           | WL-308-0016  | 50 g                   | 1 mg            | 0.001 %                      | Max 250 °C         |
| MA 110.X7.A                                             | WL-308-0003  | 110 g                  | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 110.X7.A.NS                                          | WL-308-0004  | 110 g                  | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 110.X7.A.WH                                          | WL-308-0005  | 110 g                  | 1 mg            | 0.001 %                      | Max 250 °C         |
| MA 200/1.X7.A                                           | WL-308-0032  | 200 g                  | 0.1 mg          | 0.0001 %                     | Max 160 °C         |
| MA 200/1.X7.A.NS                                        | WL-308-0033  | 200 g                  | 0.1 mg          | 0.0001 %                     | Max 160 °C         |
| MA 200/1.X7.A.WH                                        | WL-308-0034  | 200 g                  | 0.1 mg          | 0.0001 %                     | Max 250 °C         |
| MA 210.X7.A                                             | WL-308-0039  | 210 g                  | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 210.X7.A.NS                                          | WL-308-0040  | 210 g                  | 1 mg            | 0.001 %                      | Max 160 °C         |
| MA 210.X7.A.WH                                          | WL-308-0041  | 210 g                  | 1 mg            | 0.001 %                      | Max 250 °C         |

| Heating module | Weighing pan dimensions | Adjustment           | Display               | Communication interfaces              |
|----------------|-------------------------|----------------------|-----------------------|---------------------------------------|
| IR emitter     | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| IR emitter     | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| IR emitter     | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| IR emitter     | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| IR emitter     | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | internal (automatic) | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| IR emitter     | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| IR emitter     | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| IR emitter     | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| IR emitter     | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| metal heater   | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |
| halogen        | ø90 mm, h= 8 mm         | external             | 7" colour touchscreen | RS232, USB-A, USB-B, Ethernet, Wi-Fi® |

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