RADWAG BALANCES AND SCALES
ADVANCED WEIGHING TECHNOLOGIES

IMMB-04-01-09-20-EN

Start up Guide

Analytical and Precision Balances

Analitycal Balances:

- AS X2 PLUS

Precision Balances:

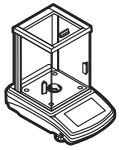
- PS X2
- PS X2.M
- WLC X2

To view a complete User Manual go to the website or scan QR code:

radwag.com/en/manuals/6972

1. CONTENT

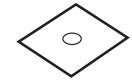
Model: AS X2 PLUS (d = 0.01 mg)


Balance
×1


Weighing pan
×1

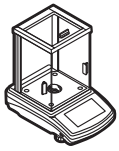

Draft shield
×1


Centring ring
×1


Bottom insert
×1

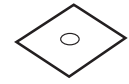

Power adapter*
×1

Models: AS X2 PLUS (d = 0.1 mg)


Balance
×1

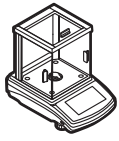

Weighing pan
×1


Draft shield
×1


Bottom insert
×1


Power adapter*
×1

Models: WLC X2 (d = 0.1 mg)


Balance
×1


Weighing pan
×1


Draft shield
×1


Bottom insert
×1


Power adapter*
×1

Models: PS X2 (d = 1 mg) | **WLC X2** (d = 1 mg)


Balance
×1


Weighing pan
×1


Draft shield
×1


Grounding foot
×1


Foot
×3


Power adapter*
×1

Models: PS 3000.X2


Balance
×1


Weighing pan
×1


Draft shield
×1


Grounding foot
×1


Foot
×3


Power adapter*
×1

**The plug type may vary by country.*

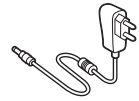
Models: WLC X2 (d = 10 mg)

Balance
×1

Weighing pan
×1

Grounding foot
×1

Foot
×3



Power adapter*
×1

PS X2.M

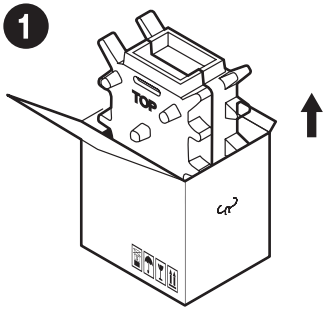
Balance
×1

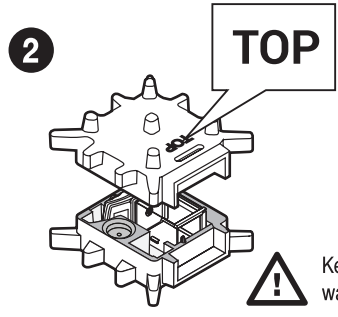
Weighing pan
×1

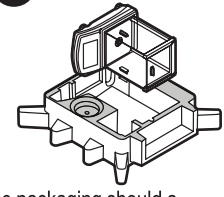
Draft shield
×1

Power adapter*
×1

2. UNPACKING

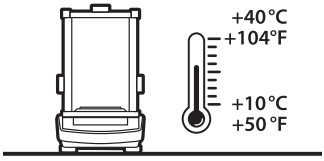






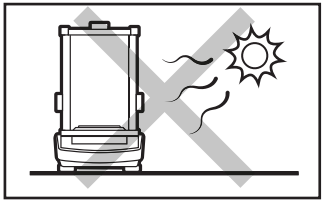
Keep the packaging should a warranty claim or service be required.

3. RECOMMENDATIONS AND WARNINGS

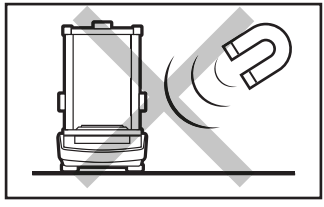


Operate the device in a room where the temperature ranges between 10–40 °C (50–104 °F) and where the relative humidity is below 80%.

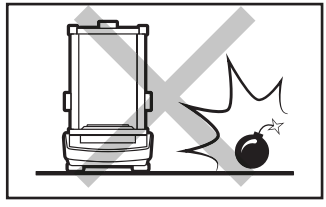
Place the balance on a solid surface to ensure stability. To obtain stable and repeatable weighing results, an anti-vibration table is recommended.



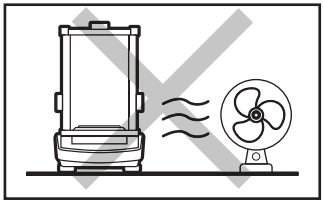
Place the balance away from heat sources. Avoid exposing the balance to the sunlight.



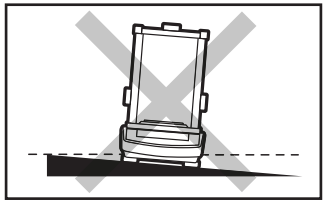
Avoid exposing the balance to a magnetic field. Do not weigh magnetic substances.



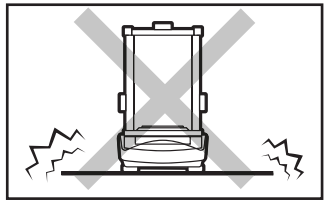
Do not place the balance in a hazardous area. Do not weigh explosive materials.



Avoid air drafts and air movements at the workstation.



Make sure that the balance is placed on an even surface.

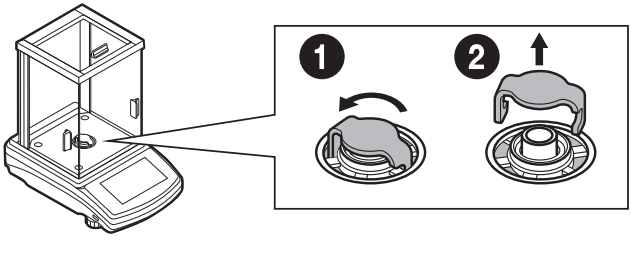


Do not place the balance on an unstable ground exposed to shocks and vibrations.

4. ACTIVITIES TO BE DONE PRIOR TO OPERATION

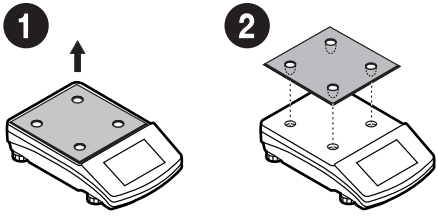
4.1. Transport lock removal

Models: **AS X2** (d = 0.01 mg) | **AS X2** (d = 0.1 mg) | **WLC X2** (d = 0.1 mg)



Keep the transport lock should a warranty claim or service be required.

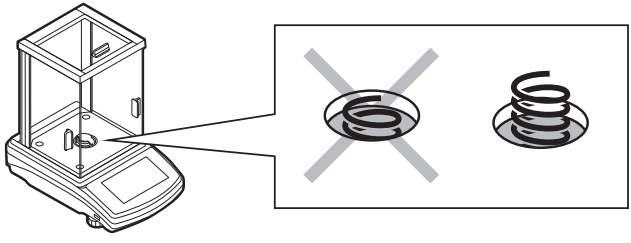
Models: PS X2.M | WLC X2 (d = 1 mg)



Keep the transport lock should a warranty claim or service be required.

4.2. Grounding spring check

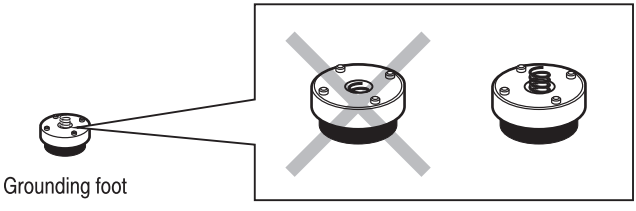
Models: AS X2 (d = 0.01 mg) | **AS X2** (d = 0.1 mg) | **WLC X2** (d = 0.1 mg)



Check whether the grounding spring takes its intended location.

Make sure that the grounding spring juts slightly out of the hole.

Models: PS X2.M | WLC X2 (d = 1 mg) | **WLC X2** (d = 10 mg)



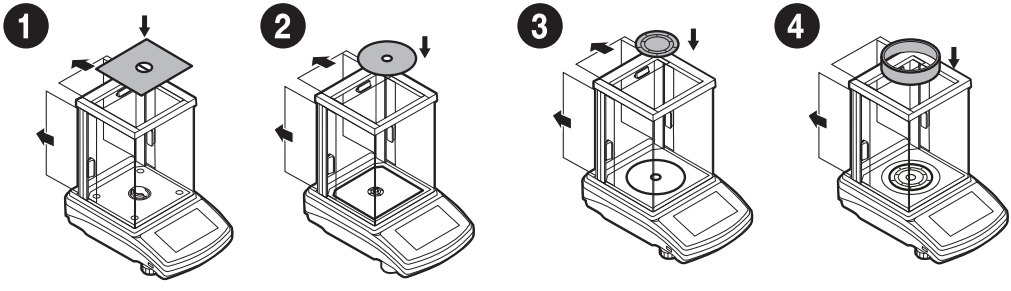
Grounding foot

Check whether the grounding spring takes its intended location.

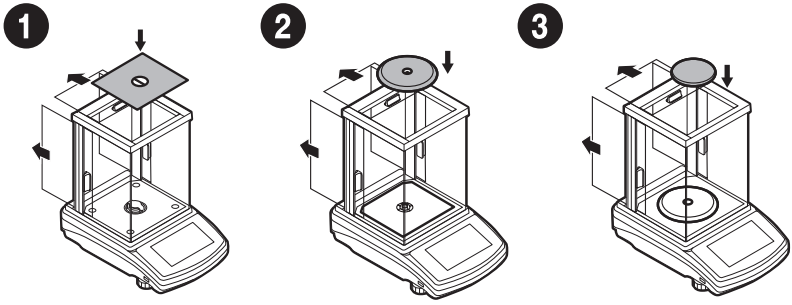
Make sure that the grounding spring juts slightly out of the hole.

5. COMPONENTS ASSEMBLY

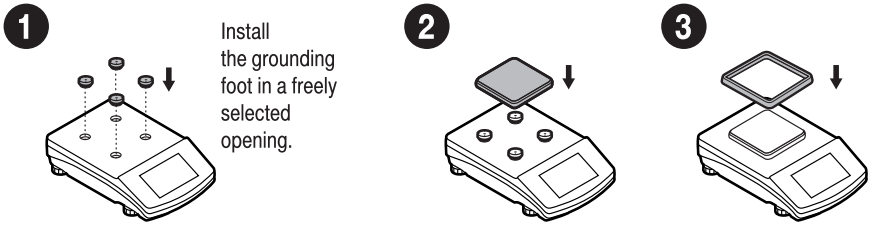
AS X2 (d = 0.01 mg)



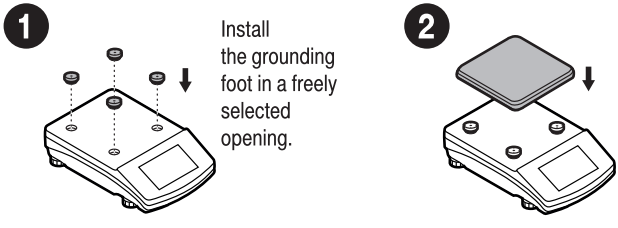
Models: AS X2 (d = 0.1 mg) | **WLC X2** (d = 0.1 mg)



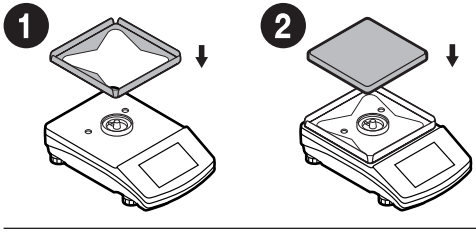
Models: PS X2 (d = 1 mg) | **WLC X2** (d = 1 mg)



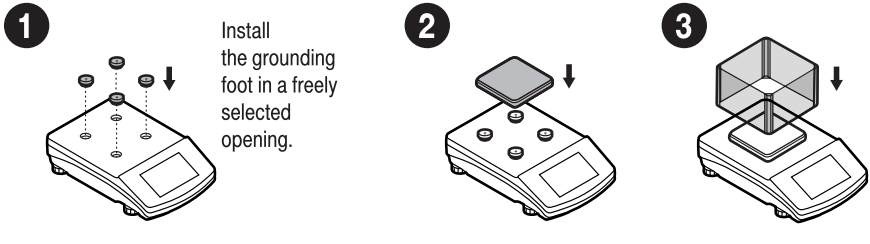
Models: WLC X2 (d = 10 mg)



PS X2.M

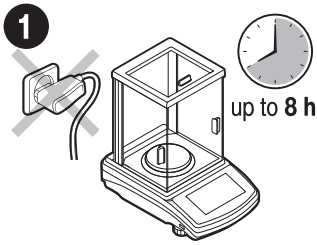


Models: PS 3000.X2

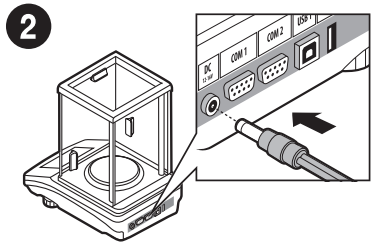


6. PREPARING FOR WORK

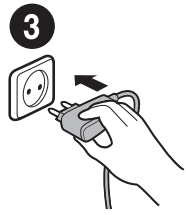
6.1. Temperature stabilisation



Prior to switching the device on, let it reach room temperature (estimated stabilisation time: up to 8 hours).

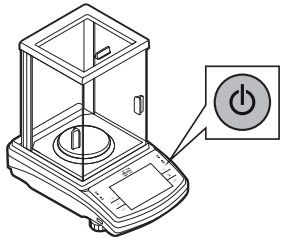


Connect the power adapter to DC connector.



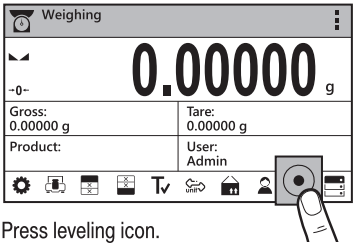
Connect the power adapter to the mains.

6.2. Switching the balance on

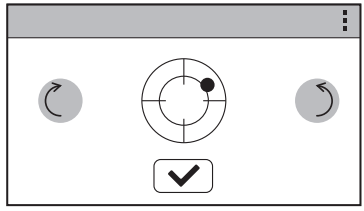


To switch the device on, press ON / OFF key.

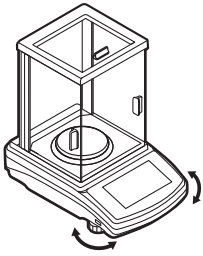
6.3. Levelling



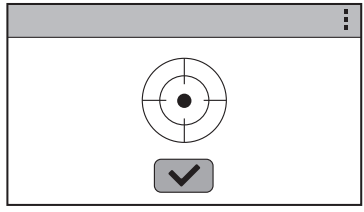
Press leveling icon.



Check the balance level state. The arows shows how to move the balance foots to level the balance.



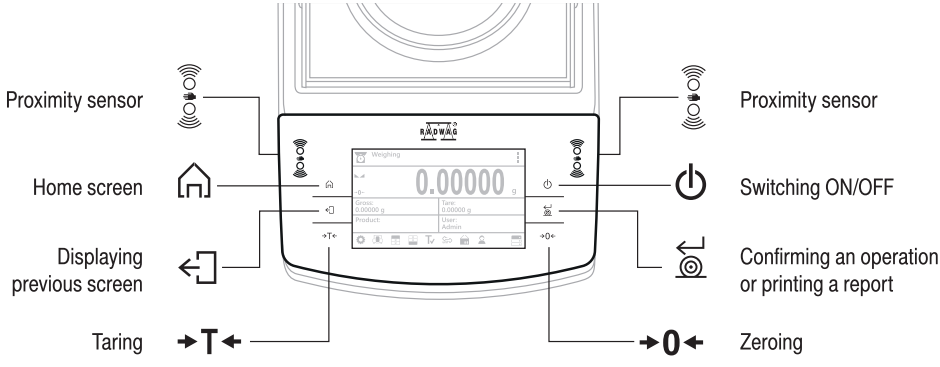
To level the balance turn its feet, keep turning the feet until the level indicator takes central position.



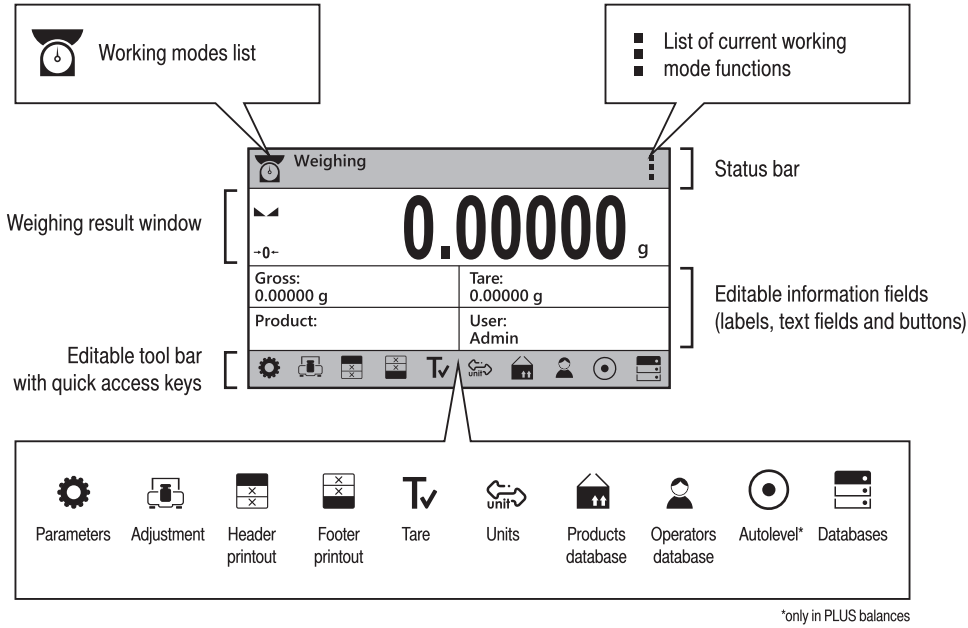
Correct leveling screen. Press ✓ button to end the operation.

7. PANEL AND SCREEN

7.1. Panel keys



7.2. Home screen

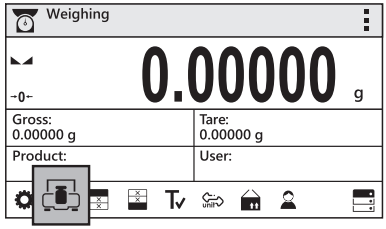


*only in PLUS balances

8. BASIC OPERATIONS

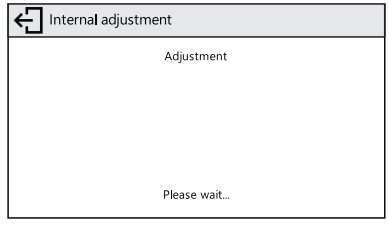
8.1.1. **Adjustment** (for models with an internal adjustment only)

1



Press “Adjustment” button.

2



Wait for the process completion.

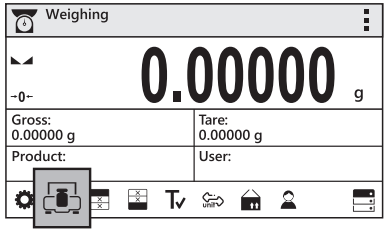
8.1.2. **Adjustment** (for models with an external adjustment only)

External adjustment is carried out using an external mass standard of the right accuracy and weight value, which value depends on balance type and capacity.

The adjustment mass standard does not come with the balance. Prior to adjustment prepare the right mass standard. You are recommended to use mass standard of class F1 or F2. View the table and select the mass standard you need.

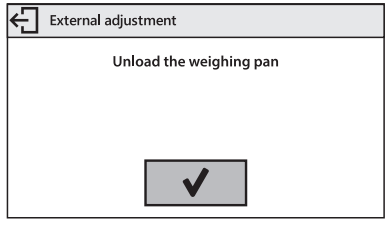
Balance model	Mass standard
WLC 0.6.X2	500 g
WLC 2.X2	2 000 g
WLC 6.X2	5 000 g
WLC 10.X2	10 000 g
WLC 1/10.X2	10 000 g
WLC 20.X2	20 000 g
WLC 21.X2	20 000 g

1



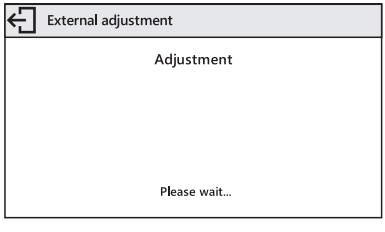
Press “Adjustment” button.

2



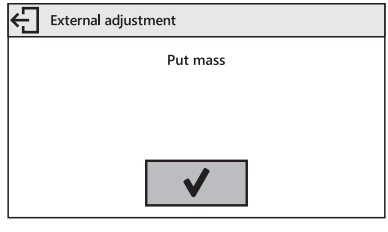
Make sure that the weighing pan is empty and press button ☑ to confirm.

3



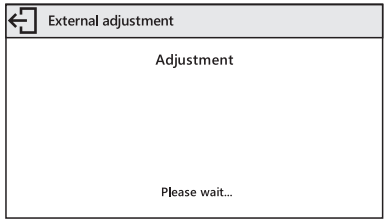
Wait for completion of the start mass determination process.

4



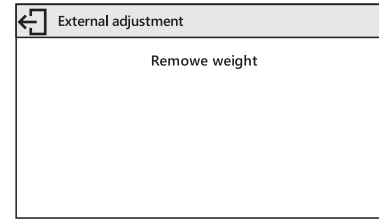
Load the weighing pan with mass standard and press ☑ button to confirm.

5



Wait for the process completion.

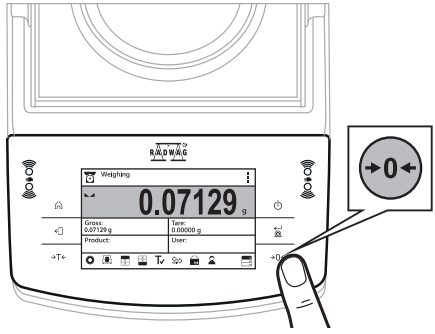
6



Unload the weighing pan.

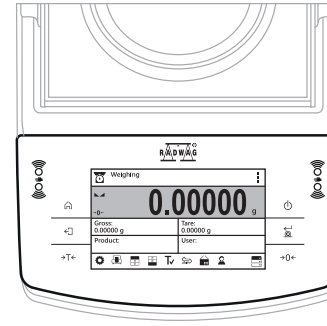
8.2. Zeroing

1



Make sure that the weighing pan is empty and press “Zeroing” button.

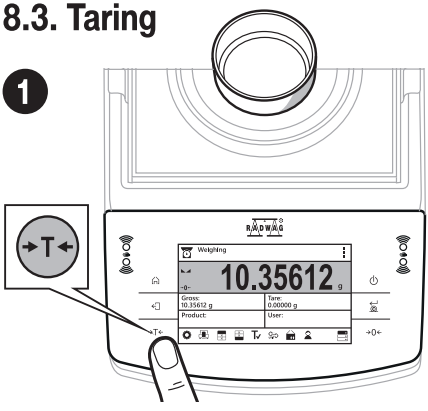
2



The balance has been zeroed.

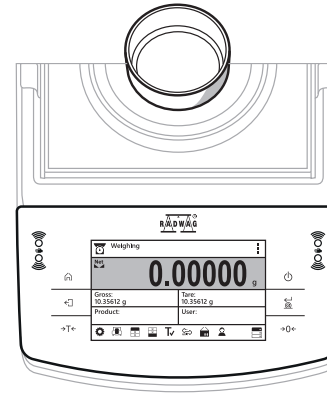
8.3. Taring

1



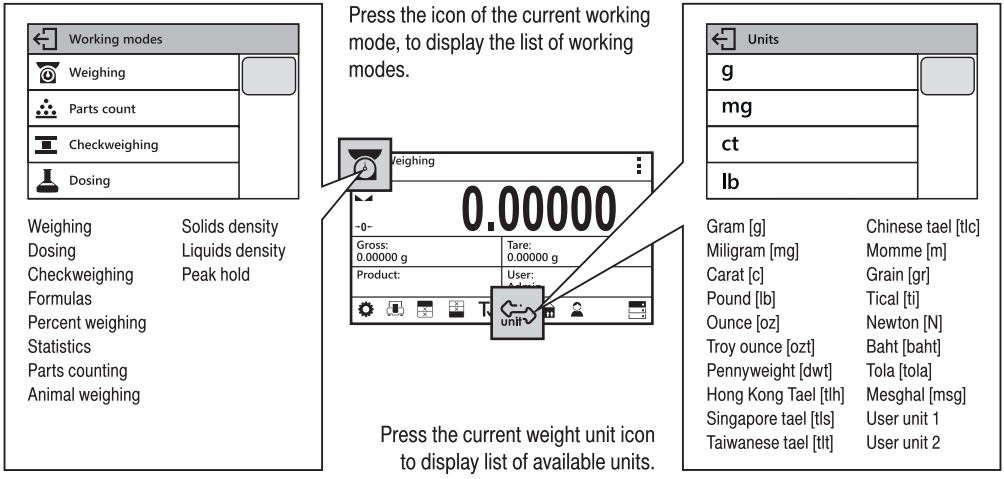
With loaded weighing pan: upon stabilisation of the weighing result, press “Tare” button.

2



The balance has been tared.

8.4. Working modes / units selection

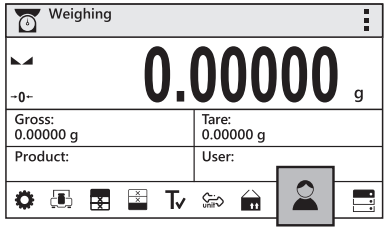


9. SETTINGS

Some balance settings are accessible for Administrator exclusively.
Prior balance parameters setup, log in as Administrator.

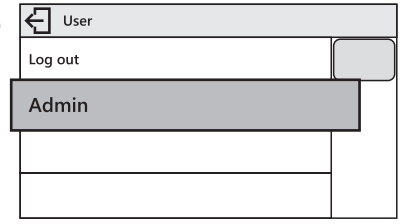
9.1. Administrator's logging in

1



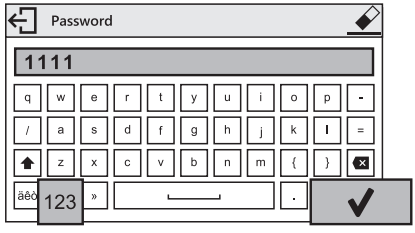
Press "Operators" button.

2



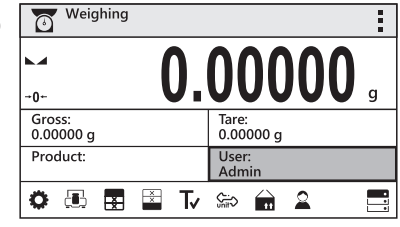
Users list is displayed, select "Admin" option.

3



Press [123] button to activate numeric keyboard.
Enter „1111" password and press [✓] button to confirm.

4

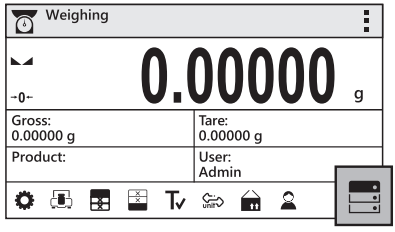


You have logged as the Administrator.

9.2. User settings

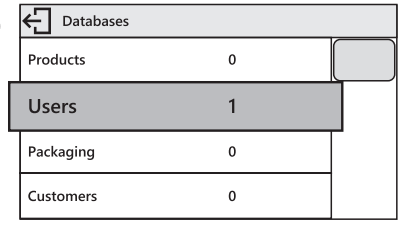
Prior to balance users setup, log in as Administrator (point 9.1.).

1



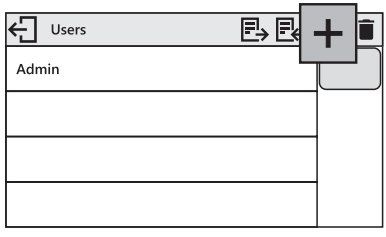
Press “Databases” button.

2



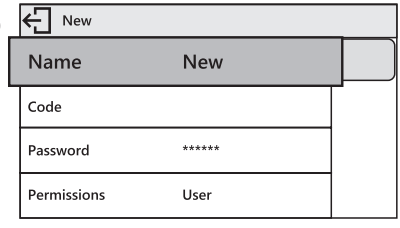
Select “Users” database.

3



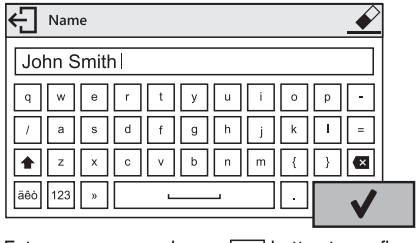
Press [+] button.

4



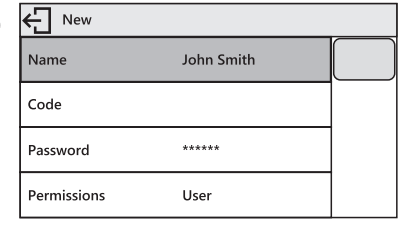
Select “Name” parameter.

5



Enter user name and press [✓] button to confirm.

6



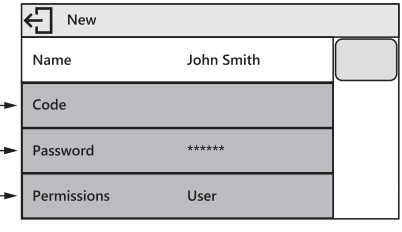
User name has been entered.

7 **Following the above procedure, set remaining parameters:**

Code:
Enter user ID

Password:
Enter user password

Permissions:
Set respective access level
(user, advanced user, administrator)

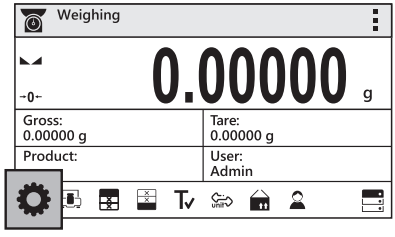


9.3. Proximity sensors setup

Prior balance proximity sensors setup, log in as Administrator (point 9.1.).

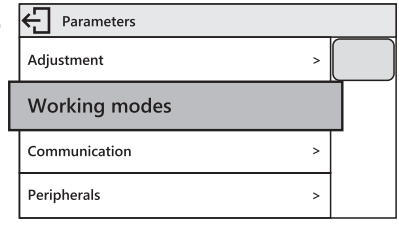
You can assign the proximity sensors with different functions for each working mode (the sensors will trigger different operation for each working mode). See the below procedure of sensors setup for the weighing mode.

1



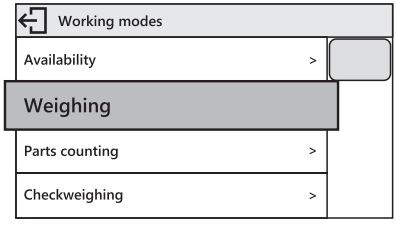
Press “Parameters” button.

2



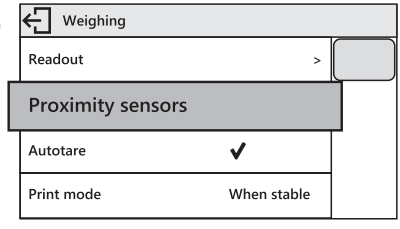
Parameters list is displayed, select “Working Modes” parameter.

3



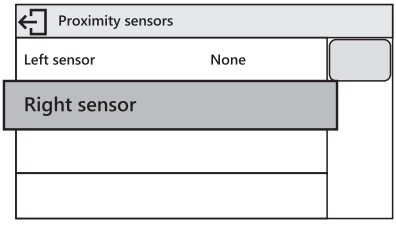
Select “Weighing” parameter.

4



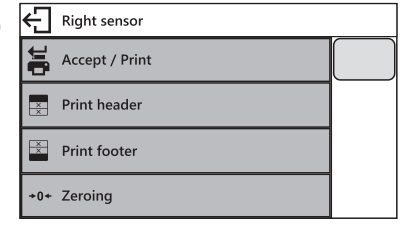
Select “Proximity Sensors” parameter.

5



Select the appropriate sensor (right or left).

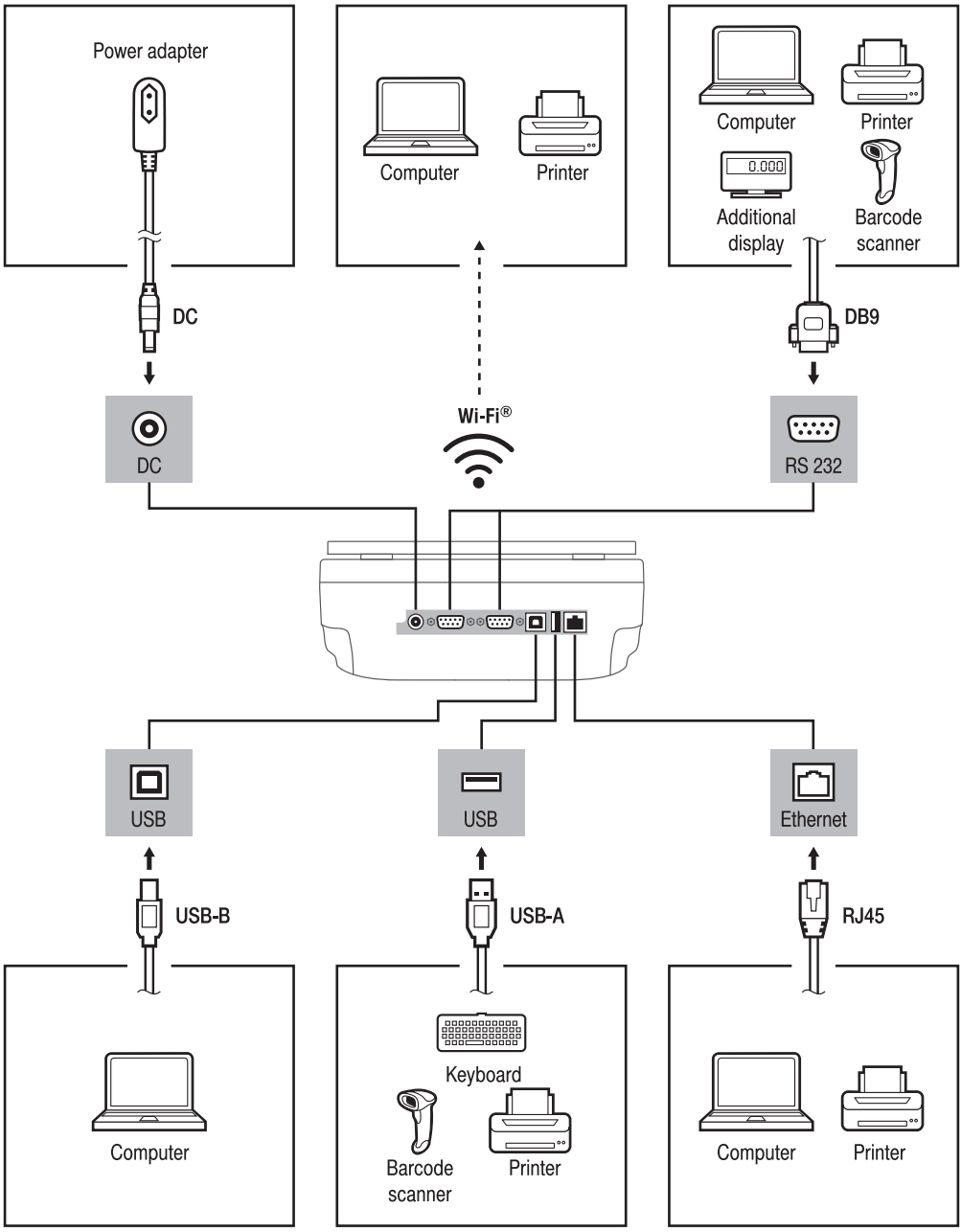
6



Select function that is to be assigned to the choosen sensor.

Following the above procedure you can configure sensors for other working modes.

10. PERIPHERAL DEVICES CONNECTORS



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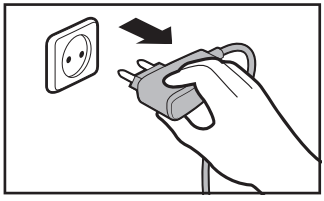
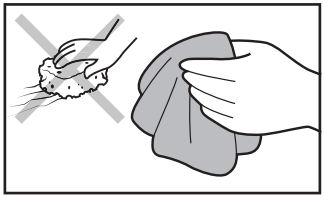
11. DEVICE CLEANING

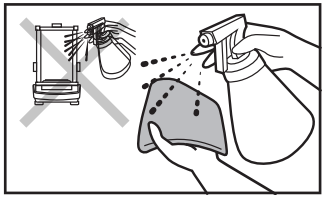
11.1. Guidelines and precautions



Prior to cleaning it is necessary to disconnect the device from the mains! Remove the plug from the outlet, disconnect all cables.



Use soft cloth made of either natural or synthetic fiber exclusively. Avoid using cloth made of stiff/hard fabric, this could cause scratches on the surface!



Apply the cleanser onto the cloth. Mind not to apply the cleanser directly onto the device!

Do not use aggressive cleaning agents (e.g. solvents, chlorine preparations, corrosive chemicals, bleach).

Neither use substances of sharp structure nor intended for scrubbing.

Make sure that neither dust nor liquid gets inside the weighing system (device inside).

11.2. Cleaning instructions

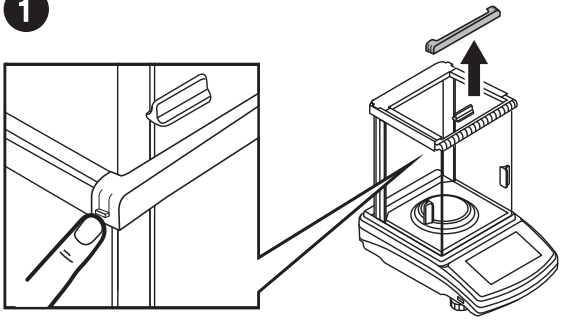
Shall it be necessary to disassemble the weighing chamber, follow the description provided in section 11.3.

- **GLASS PANES AND COMPONENTS** can be cleaned using window cleaner.
- **WEIGHING PANS AND STAINLESS STEEL OR ALUMINIUM COMPONENTS** can be cleaned using a cloth slightly soaked in a solution of water and gentle cleanser (e.g. soap or dishwashing liquid).
- **OPERATION PANEL AND HOUSING** can be cleaned using a cloth slightly soaked in a solution of water and gentle cleanser (e.g. soap or dishwashing liquid).
- Dry sample leftovers can be removed using either brush or handheld vacuum cleaner.
- Clean components can be dried using soft cloth or dust-free paper towel, with this the remaining moist will be absorbed.
- **Install all the components providing they are completely dry.**

11.3. Weighing chamber elements disassembly

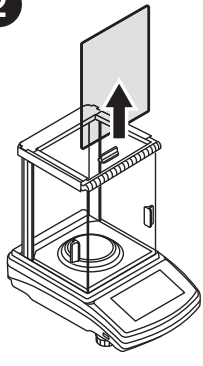
Prior disassembling weighing chamber elements make sure the balance is turned off and unplugged from the mains. When disassembling the elements, use tweezers that come standard with the instrument.

1



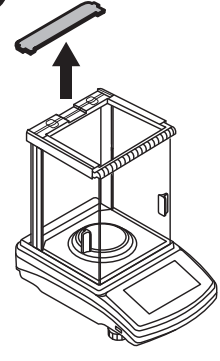
Press the moldings on the housing and lift the movable element up.

2



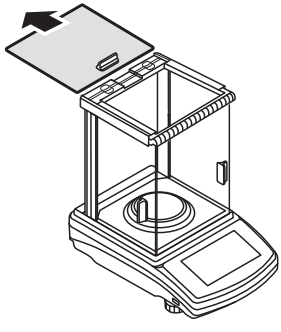
Now you can take out the front glass.

3



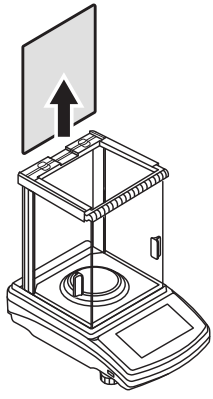
Press the moldings on the housing and lift the movable element up.

4



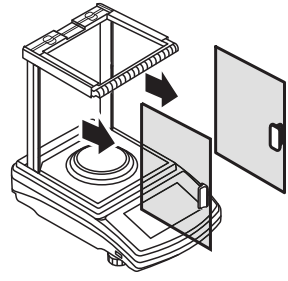
Now you can take out the upper glass.

5



Take out the back glass.
The housing has recesses
to facilitate removing the glass.

6



Slide out the door.

All disassembled elements are prepared to be cleaned. Assembly all weighing chamber elements in an order reverse to the disassembly process.

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