

Start up Guide

Ultra-microbalances and Microbalances

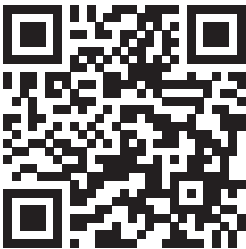
Ultra-microbalances:

- UYA 4Y PLUS
- UYA 4Y
- UYA 4Y.F.A PLUS
- UYA 4Y.F.A

Microbalances:

- MYA 4Y PLUS
- MYA 4Y
- MYA 4Y.P PLUS
- MYA 4Y.P
- MYA 4Y.F.A PLUS
- MYA 4Y.F1 PLUS
- MYA 4Y.F.A
- MYA 4Y.F1

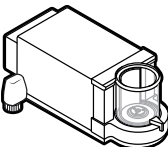
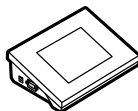



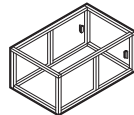



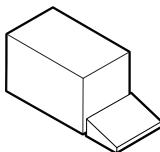

To view a complete User Manual go to the website or scan QR code:



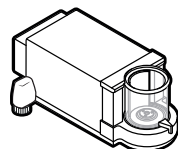
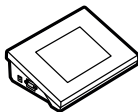


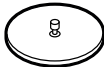



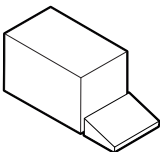

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1. CONTENT

For models: UYA 4Y PLUS

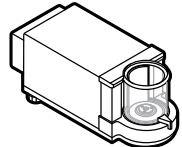
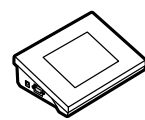


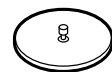
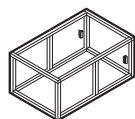



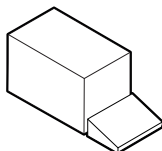

					
Ultra-microbalance x1	Terminal x1	Weighing pan x1	Weighing pan shield x1	Glass weighing chamber lid x1	
					
Anti-draft shield x1	Power supply* x1	Tweezers x1	Brush x1	Fabric dust cover x1	RS232 cable x1

For models: MYA 4Y PLUS

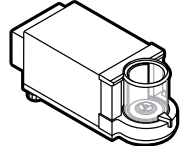
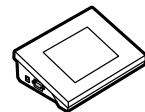


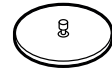



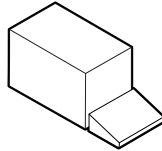

				
Microbalance x1	Terminal x1	Weighing pan x1	Weighing pan shield x1	Glass weighing chamber lid x1
				
Power supply* x1	Tweezers x1	Brush x1	Fabric dust cover x1	RS232 cable x1

**The plug type may vary by country.*

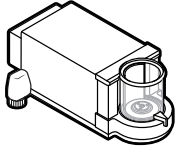
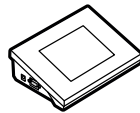




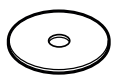

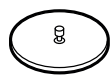



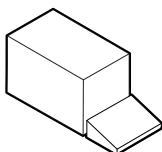

For models: UYA 4Y

					
Ultra-microbalance x1	Terminal x1	Weighing pan x1	Weighing pan shield x1	Glass weighing chamber lid x1	
					
Anti-draft shield x1	Power supply* x1	Tweezers x1	Brush x1	Fabric dust cover x1	RS232 cable x1

For models: MYA 4Y

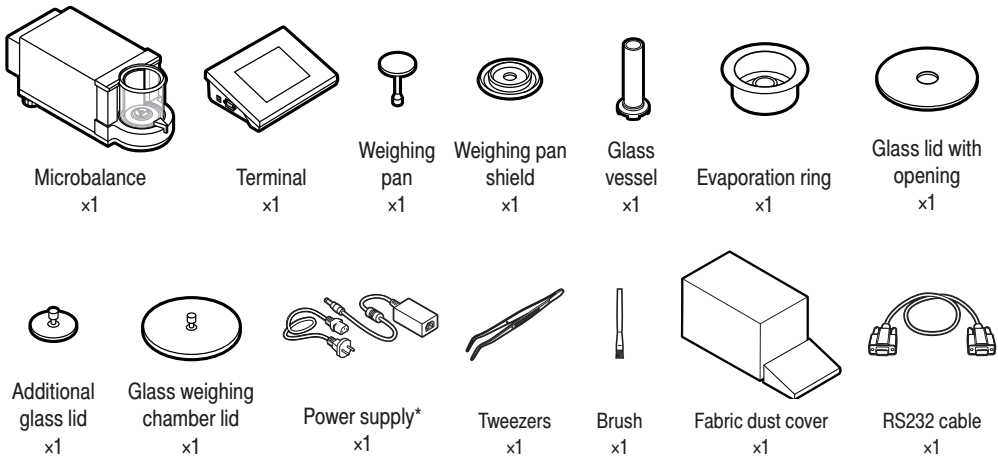
					
Microbalance x1	Terminal x1	Weighing pan x1	Weighing pan shield x1	Glass weighing chamber lid x1	
					
Power supply* x1	Tweezers x1	Brush x1	Fabric dust cover x1	RS232 cable x1	

For models: MYA 4Y.P PLUS

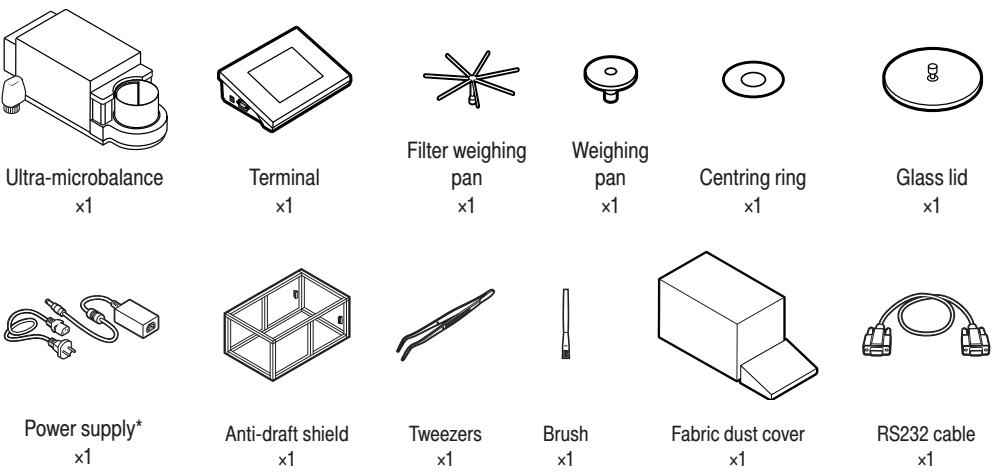
							
Microbalance x1	Terminal x1	Weighing pan x1	Weighing pan shield x1	Glass vessel x1	Evaporation ring x1	Glass lid with opening x1	
							
Additional glass lid x1	Glass weighing chamber lid x1	Power supply* x1	Tweezers x1	Brush x1	Fabric dust cover x1	RS232 cable x1	

**The plug type may vary by country.*

For models: MYA 4Y.P

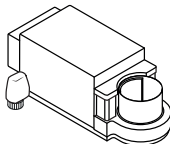
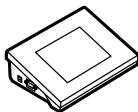



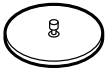



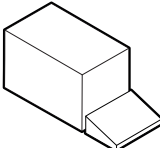



For models: UYA 4Y.F.A PLUS

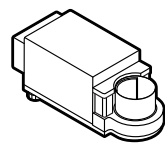
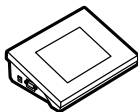



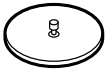

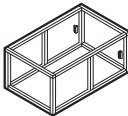


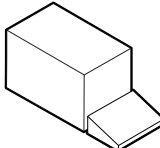



**The plug type may vary by country.*

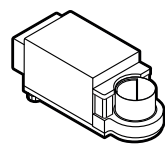
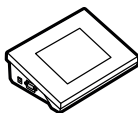



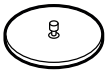



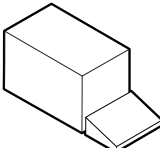

For models: MYA 4Y.F.A PLUS

					
Microbalance x1	Terminal x1	Filter weighing pan x1	Weighing pan x1	Centring ring x1	Glass lid x1
					
Power supply* x1	Tweezers x1	Brush x1	Fabric dust cover x1	RS232 cable x1	

For models: UYA 4Y.F.A

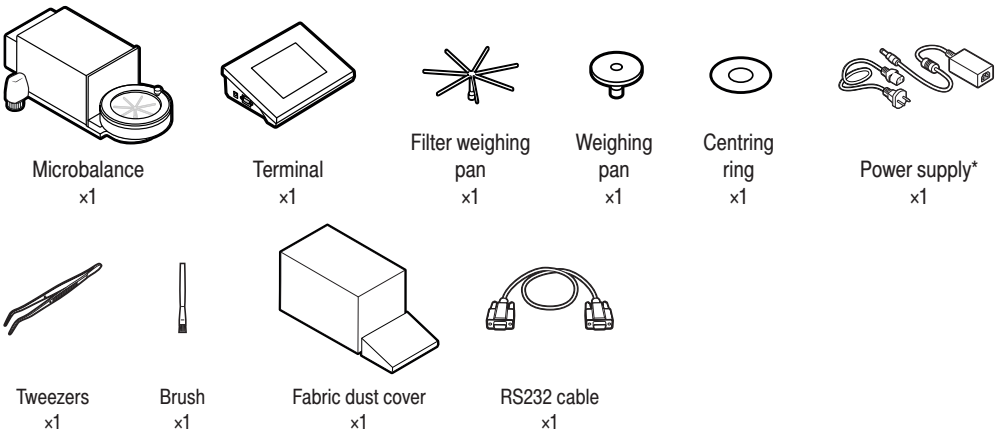
					
Ultra-microbalance x1	Terminal x1	Filter weighing pan x1	Weighing pan x1	Centring ring x1	Glass lid x1
					
Power supply* x1	Anti-draft shield x1	Tweezers x1	Brush x1	Fabric dust cover x1	RS232 cable x1

For models: MYA 4Y.F.A

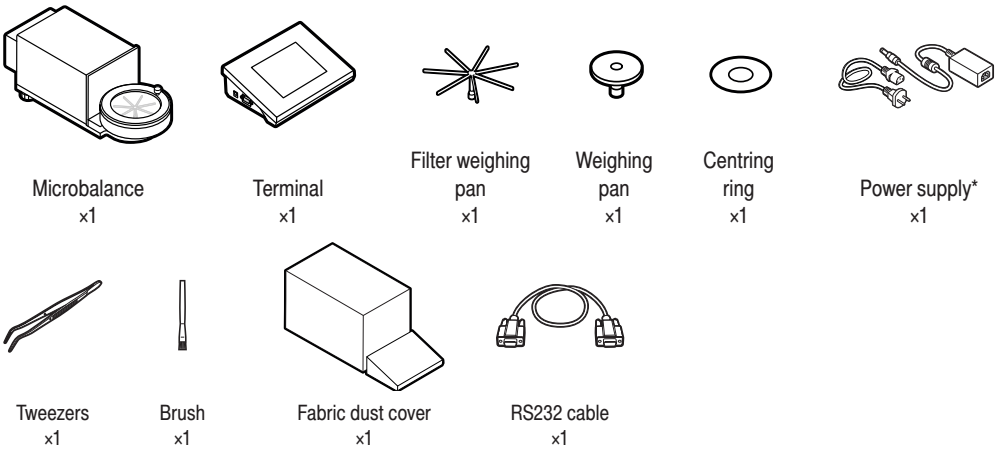
					
Microbalance x1	Terminal x1	Filter weighing pan x1	Weighing pan x1	Centring ring x1	Glass lid x1
					
Power supply* x1	Tweezers x1	Brush x1	Fabric dust cover x1	RS232 cable x1	

**The plug type may vary by country.*

For models: MYA 4Y.F1 PLUS

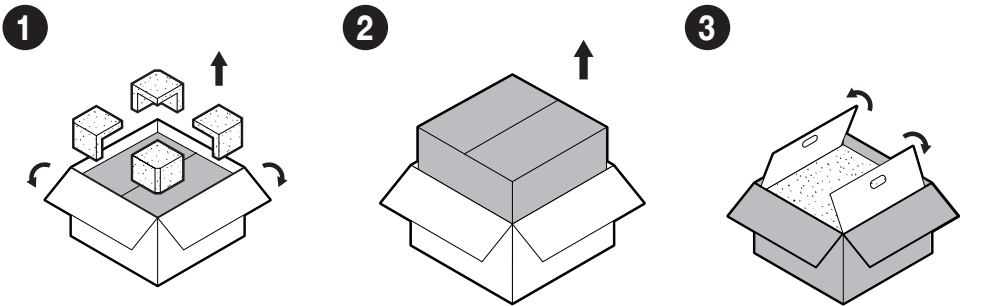


For models: MYA 4Y.F1

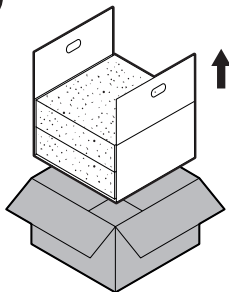


**The plug type may vary by country.*

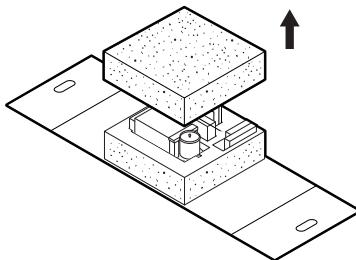
2. UNPACKING



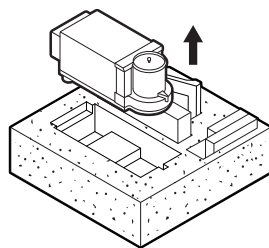
4



5

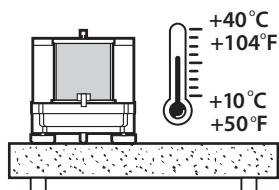


6



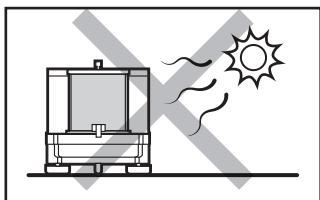
Keep the packaging should a warranty claim or service be required.

3. RECOMMENDATIONS AND WARNINGS

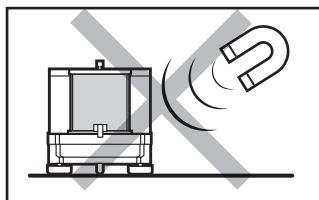


Operate the device in a room where the temperature ranges between 10–40 °C (50–104 °F) and where the relative humidity is below 80%. Temperature must change slowly and gradually.

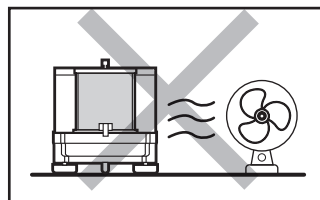
Using the anti-vibration table is recommended in order to enable the most stable and repeatable measurement.



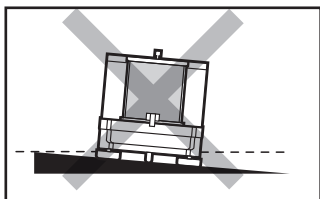
Place the balance away from heat sources. Avoid exposing the balance to the sunlight.



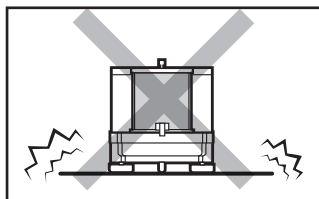
Avoid exposing the balance to a magnetic field. Do not weigh magnetic substances.



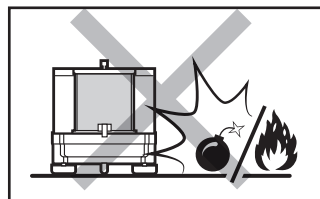
Avoid air drafts and air movements at the workstation.



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



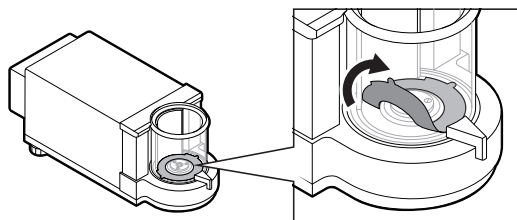
Do not place the balance on an unstable surface exposed to shocks and vibrations.



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

4. ACTIVITIES TO BE DONE PRIOR TO OPERATION

4.1. Transport lock removal

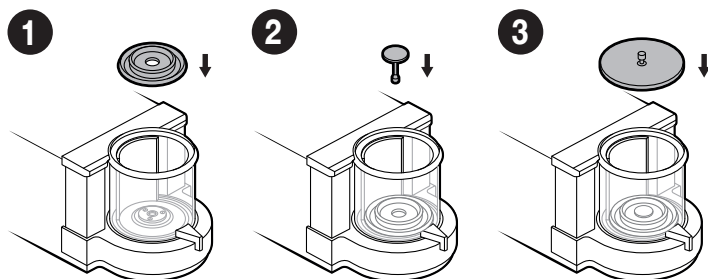


Prior to balance assembly
remove the transport lock.

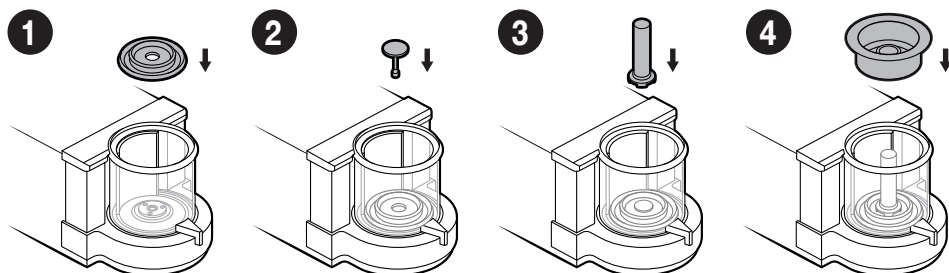
5. COMPONENTS ASSEMBLY

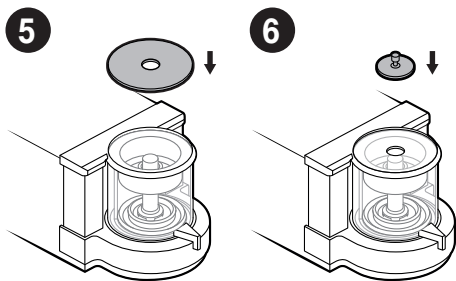
5.1. Weighing chamber components assembly

For models: UYA 4Y PLUS | MYA 4Y PLUS | UYA 4Y | MYA 4Y

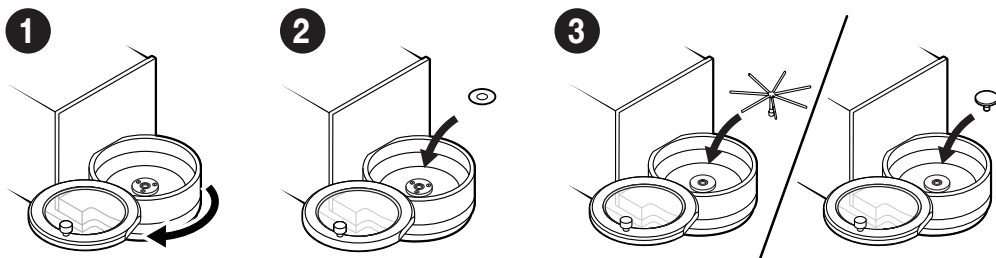


For models: MYA 4Y.P PLUS | MYA 4Y.P

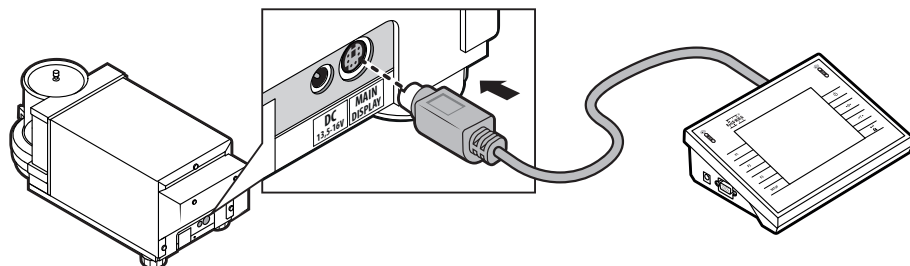




For models: UYA 4Y.F PLUS | MYA 4Y.F PLUS | UYA 4Y.F | MYA 4Y.F



5.2. Connecting the terminal



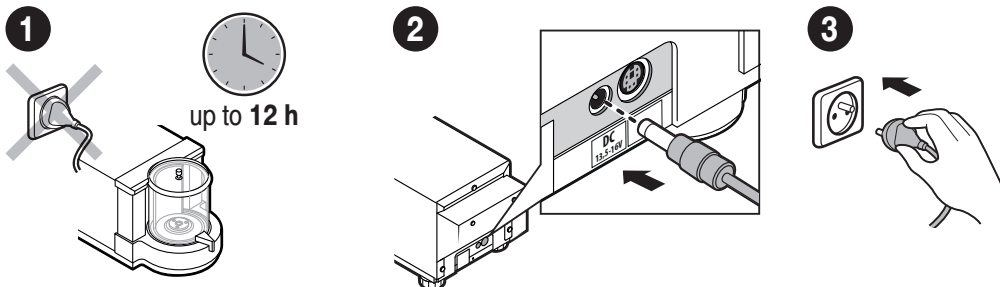
Connect the terminal to MAIN DISPLAY connector.

6. PREPARING FOR WORK



Place the device at the workstation, wait until it reaches room temperature.

6.1. Temperature stabilization

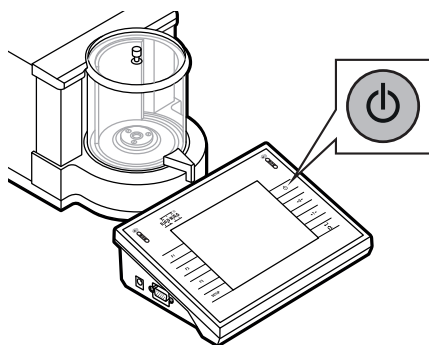


Prior to switching the device on let it reach room temperature (estimated stabilisation time: up to 12 hours).

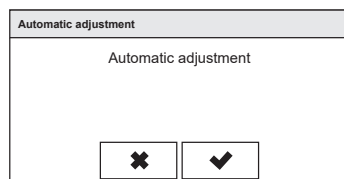
Connect the power adapter to DC connector located at the back of the device.

Connect the power adapter to the mains.

6.2. Switching the balance on



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

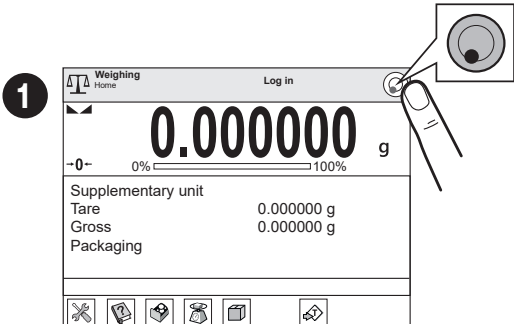


Confirm or cancel the start of the automatic adjustment process.

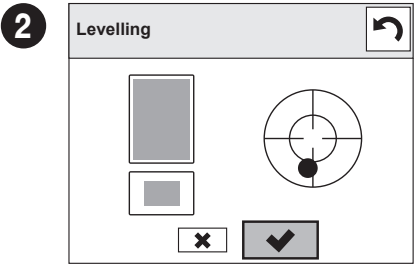
6.3.1. Balance levelling (for models with automatic levelling system only)



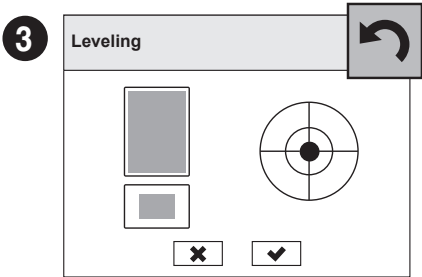
If your balance features an automatic levelling system, it will launch automatically upon turning the device on. To initiate the levelling manually, follow these steps:




Press “Levelling” icon.

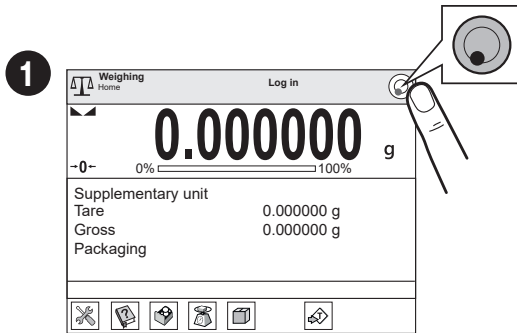


Confirm the automatic levelling process.

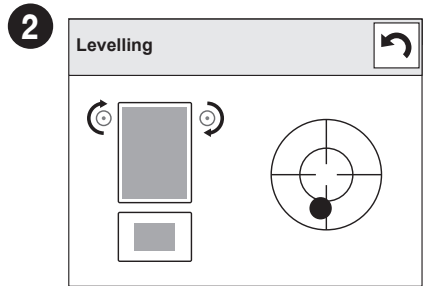


Balance has been levelled. To close the levelling window press  button.

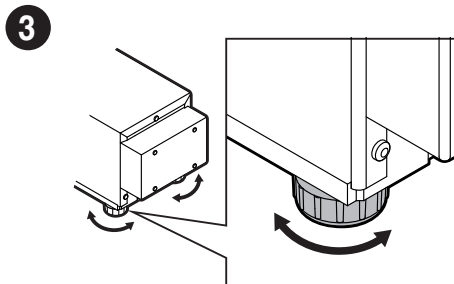
6.3.2. Balance levelling (for models with semi-automatic levelling only)



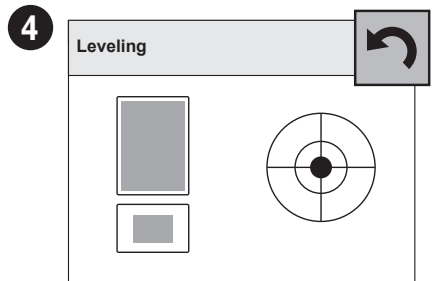
Press "Levelling" icon.




Check the balance level state. The arrows 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.



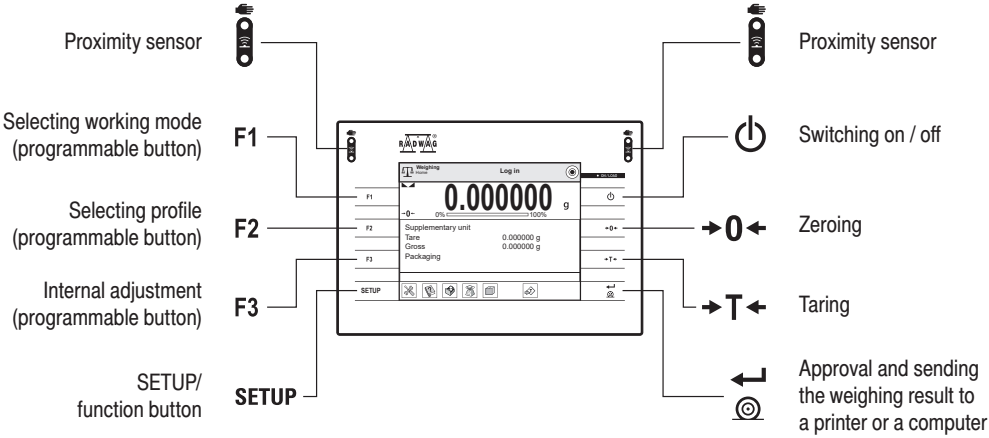
Balance has been levelled. To close the levelling window press  button.



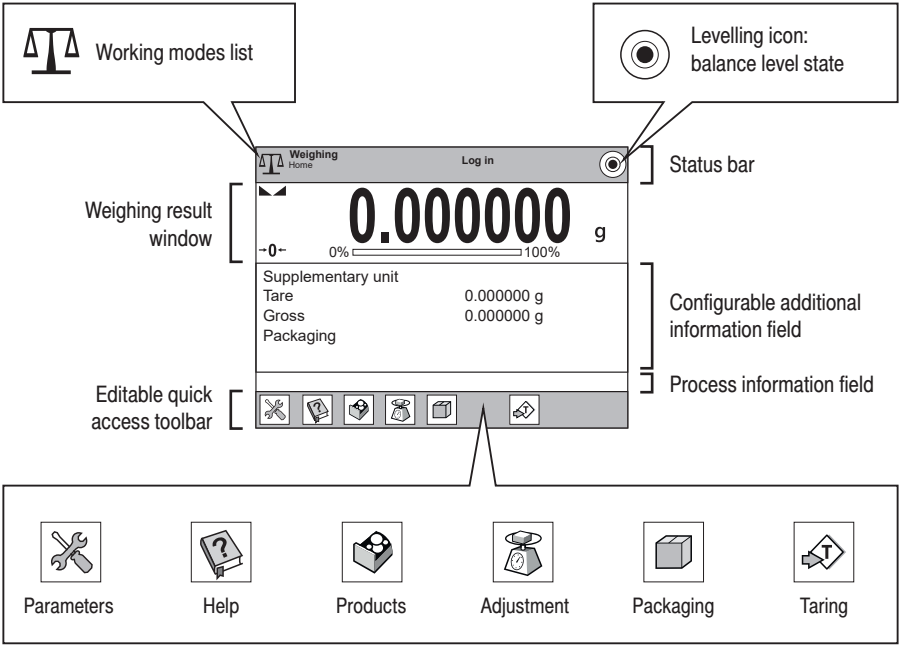
Your balance is ready to use!

7. PANEL AND SCREEN

7.1. Panel keys

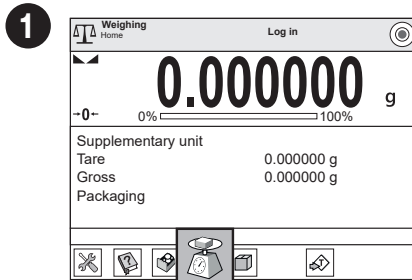


7.2. Home screen

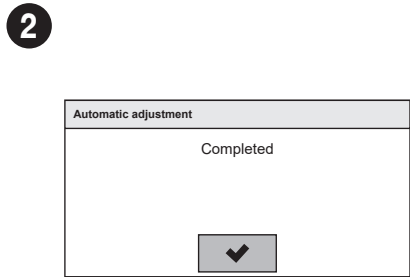


8. BASIC OPERATIONS

8.1. Adjustment

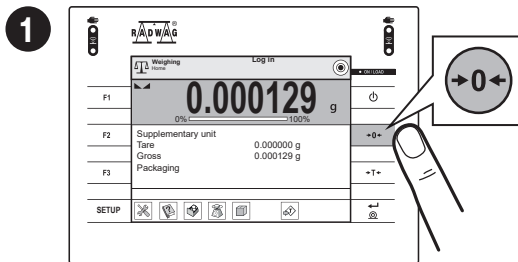


Press "Adjustment" button and wait for completion of the adjustment process.

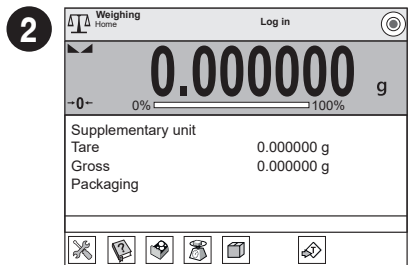


Adjustment completed. Press ☒ button for confirmation.

8.2. Zeroing

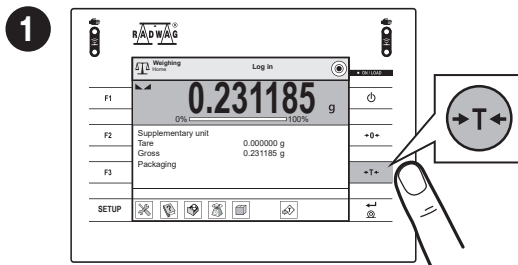


Make sure that the weighing pan is empty and press "Zero" button.

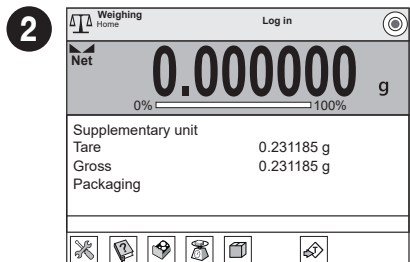


The balance has been zeroed.

8.3. Taring






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





Balance has been tared.


8.4. Working modes / units selection


**Working modes**


1  Weighing


2  Parts counting

3  Checkweighing

4  Dosing







Weighing

Dosing

Checkweighing

Formulations

Percent weighing

Statistics

Parts counting

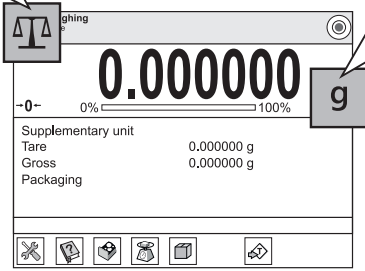
Animal weighing

Solids density

Liquids density

Peak hold

Press the icon of the current working mode, to display the list of working modes.



Press the current weight unit icon to display list of available units.

Unit


g


mg


ct

lb

oz







Gram [g]

Chinese tael [tlc]

Milligram [mg]

Momme [m]

Carat [c]

Grain [gr]

Pound [lb]

Tical [ti]

Ounce [oz]

Newton [N]

Troy ounce [ozt]

Baht [baht]

Pennyweight [dwt]

Tola [tola]

Hong Kong Tael [tlh]

Mesghal [msg]



Singapore tael [tls]


User unit 1


Taiwanese tael [tit]


User unit 2


8.5. Working modes settings


**Weighing**


 Settings


 Buttons


 Information

 Printouts


 Profile











Press selected button to view the list of available options.

**Settings:** additional options

**Buttons:** quick access buttons configuration

**Information:** setting data that is to be displayed in the workspace

**Printouts:** setting printout type and conten

**Profile:** setting profile that is to be used during operation

**Weighing**

Supplementary unit

Tare 0.000000 g

Gross 0.000000 g

Packaging













Press the icon of the current working mode, to display the list of available working modes.

**Weighing**

Supplementary unit

Tare 0.000000 g

Gross 0.000000 g

Packaging













Press information field to access current working mode options.

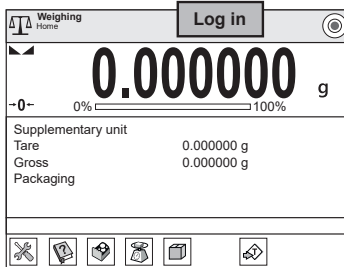
9. SETTINGS



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

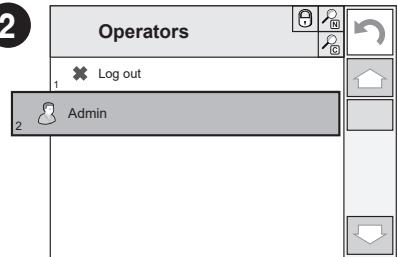
9.1. Administrator's logging in

1



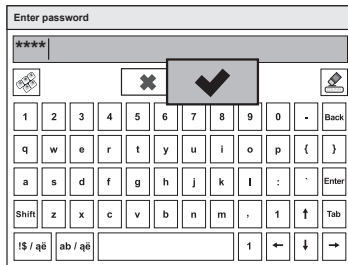
To enter "Users" menu press "Log in" button.


2



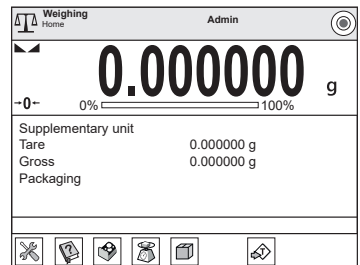
Users list is displayed, select "Admin" option.

3



Enter "1111" password and press  button to confirm.

4



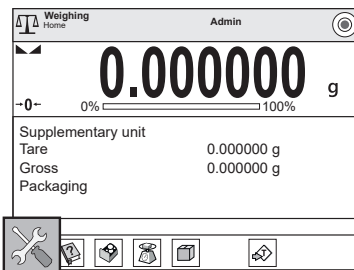
You have logged in as the Administrator.

9.2. User settings



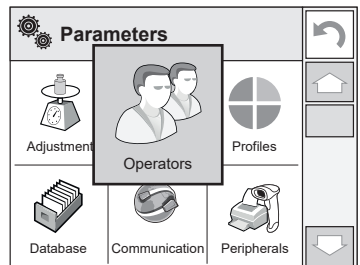
Prior to users settings, log in as Administrator (point 9.1.).

1



Press "Parameters" button.

2



Press "Operators" button.

3

Operators

1 Admin

Press "Add" button.

4

Edit record

1 Name

2 Code

3 Password *****

4 Name ad Surname

5 Acces level User

6 Account active Yes

Select "Name" parameter.

5

Name

John Smith

1 2 3 4 5 6 7 8 9 0 . Back

q w e r t y u i o p { }

a s d f g h j k l ; ' Enter

Shift z x c v b n m , . / Tab

15 / q8 ab / q8

Enter user name and press ☒ button to confirm.

6

Edit record

1 Name John Smith

2 Code

3 Password *****

4 Name ad Surname

5 Acces level Operator

6 Account active Yes

User name has been entered.

7 Following the above procedure, set remaining parameters:

Code:

Enter user ID

Password:

Enter user password

First and last name:

Enter user's first and last name

Access levels:

Set respective access level
(user, advanced, admin)

Account status:

(active or inactive)

Edit record

1 Name John Smith

2 Code

3 Password *****

4 Name and Surname

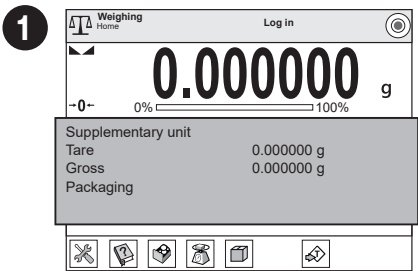
5 Acces level Operator

6 Account active Yes

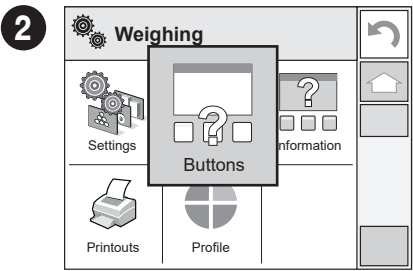
9.3. Proximity sensors setup

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

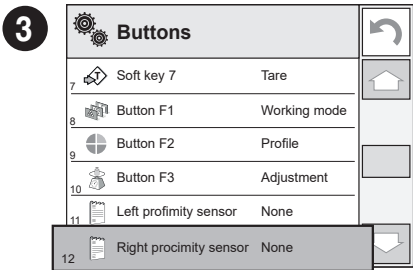
You can assign the proximity sensors with different functions for each working mode (the sensors will trigger different operation for each working mode). See the below procedure of sensors setup for the “Weighing” mode.



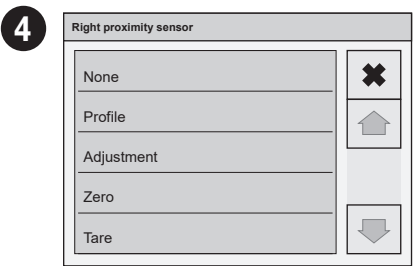
Press information field to access current working mode options.



Press “Buttons” button.



Select the appropriate sensor (right or left).

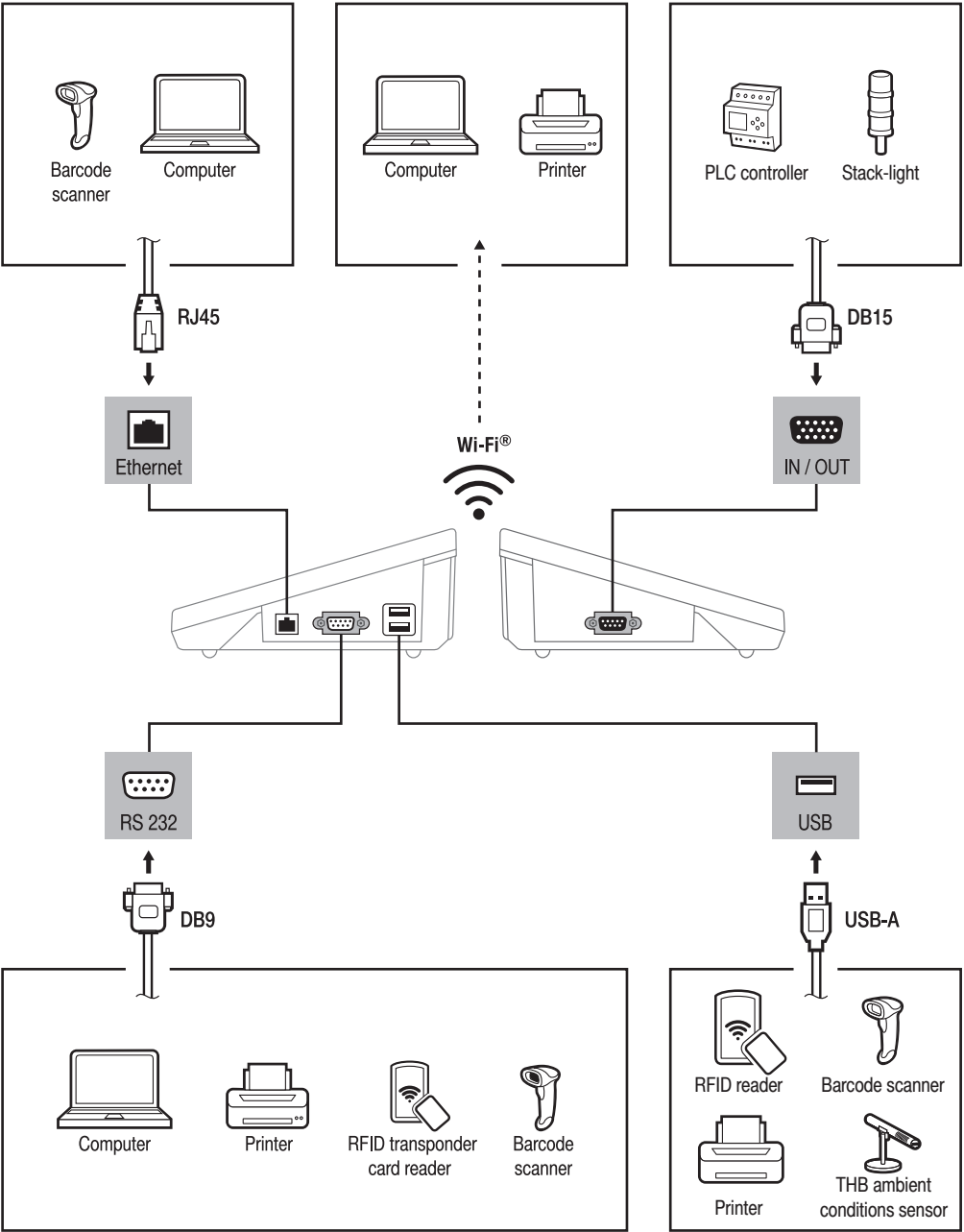


Select function that is to be assigned to the chosen sensor.



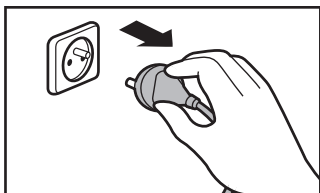
Following the above procedure you can configure sensors for other working modes.

10. PERIPHERAL DEVICES CONNECTORS

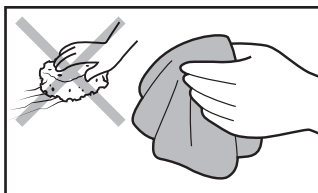


11. DEVICE CLEANING

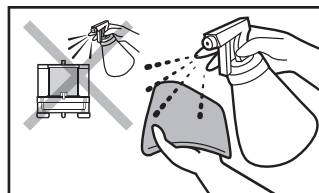
11.1. Guidelines and precautions



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



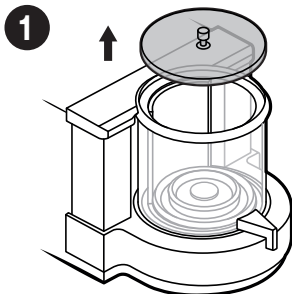
Shall it be necessary to disassemble the weighing chamber, follow the description provided in section 11.3.

- **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.**

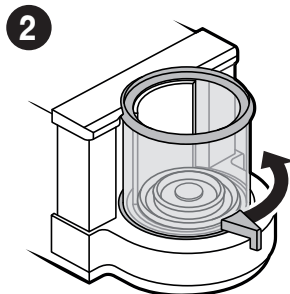
11.3. Weighing chamber elements disassembly



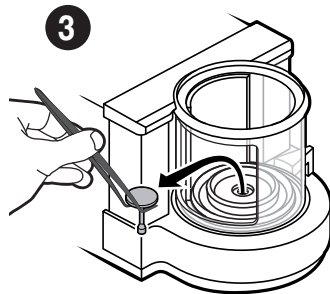
Prior disassembling weighing chamber elements make sure the microbalance is turned off and unplugged from the mains. When disassembling the elements, use tweezers that come standard with the instrument.



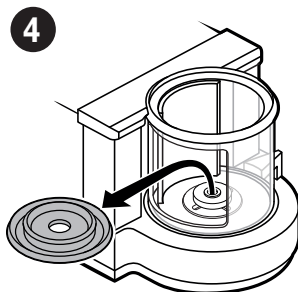
Lift the lid of microbalance weighing chamber.



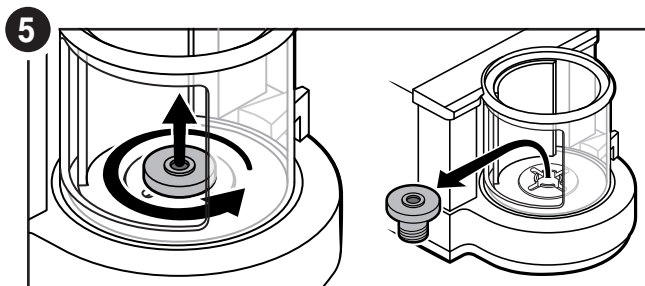
Open the weighing chamber by twisting the handle.



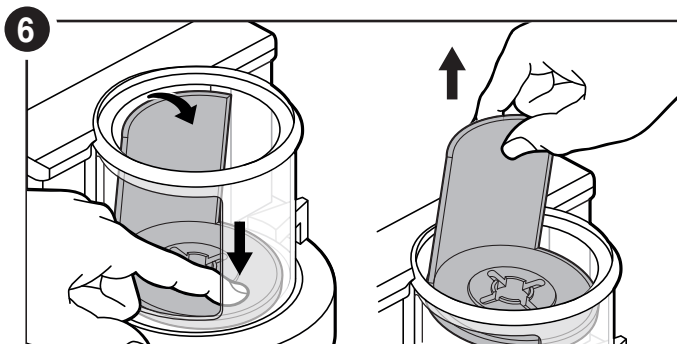
Using the tweezers, carefully remove the weighing pan from the weighing chamber.



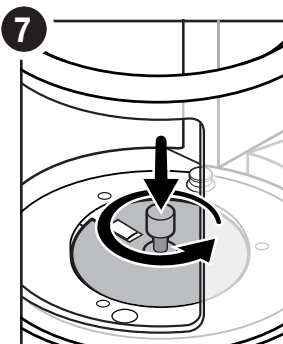
Remove the draft shield from the weighing chamber.



Unscrew the draft shield's sleeve counterclockwise and remove it from the weighing chamber.

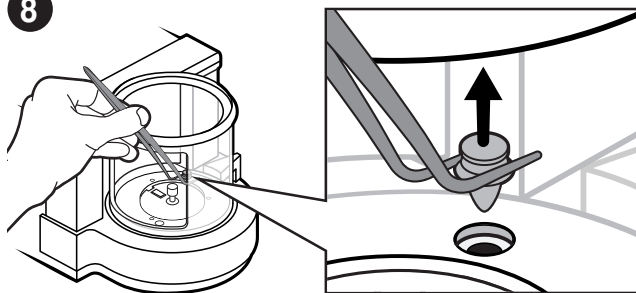


Use your finger to press the base of the ring assembly in order to tilt the top edge. Grab the top edge and remove the ring assembly through the upper hole of the weighing chamber.



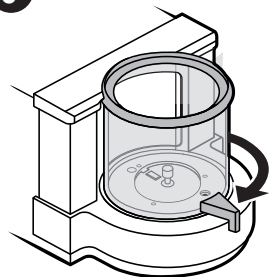
Install and tighten the protective ring using the handle.

8



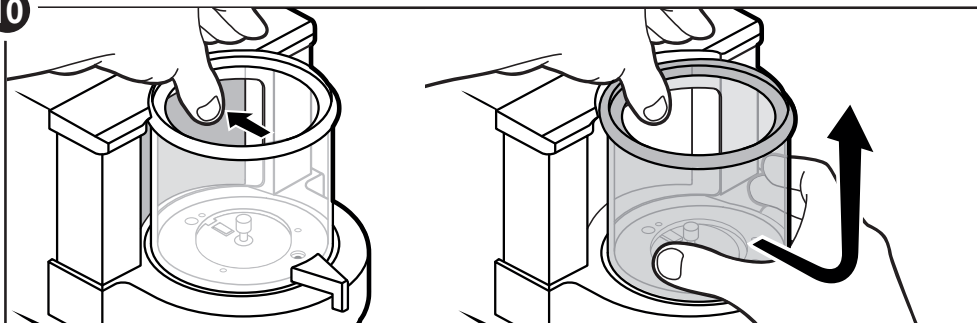
Remove the plastic fastener from the weighing chamber using tweezers.

9



Close the weighing chamber.

10



Press the weighing chamber clamp. While pressing the clamp, grab the chamber, move it towards you and up.



After cleaning the weighing chamber elements, they must be assembled in the reverse order.



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