IMMB-02-01-09-20-EN

Start up Guide

Micro-balances and Analytical Balances

Microbalances:

- XA 4Y.M.A PLUS
- XA 4Y.M.A
- XA 4Y.M.A.P PLUS
- XA 4Y.M PLUS

Analytical balances:

- XA 4Y.A PLUS
- XA 4Y.A
- XA 4Y PLUS
- XA 4Y.F
- AS 3Y

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



Microbalances: Analitycal balances:

XA 4Y.M.A PLUS

XA 4Y.A PLUS

XA 4Y.A

XA 4Y.A

XA 4Y.M.A.P PLUS

XA 4Y.B

XA 4Y.B

XA 4Y.B

XA 4Y.B

radwag.com/en/manuals/3615



Analitycal balances: AS 3Y

1. CONTENT

XA 4Y.M.A PLUS



Microbalance ×1



x1

Weighing pan A



Anti-draft shield



Power adapter*

XA 4Y.M.A



Microbalance ×1



Weighing pan ×1



Anti-draft shield ×1



Power adapter*

XA 4Y.M.A.P PLUS



Microbalance ×1



Automatic pipettes calibration adapter ×1



Power adapter* ×1

XA 4Y.M PLUS



Microbalance ×1



Weighing pan ×1



Anti-draft shield ×1



Bottom insert ×1



Power adapter*
×1

XA 4Y.A PLUS (d= 0.01mg)



Analytical balance



Weighing pan ×1



Anti-draft shield ×1



Centring ring ×1



Power adapter*

XA 4Y.A PLUS (d=0.1mg)



Analytical balance x1



Weighing pan

x1

Anti-draft shield x1



Power adapter* x1

XA 4Y.A (d=0.01mg)



Analytical balance x1



Weighing pan x1



Draft shield ×1



Centring ring x1



Power adapter* x1

XA 4Y.A (d=0.1mg)



Analytical balance x1



Weighing pan x1



Anti-draft shield x1



Power adapter* ×1

XA 4Y PLUS (d=0.01mg)



Analytical balance x1



Weighing pan ×1



Draft shield x1



Centring ring ×1



Bottom insert ×1



Power adapter* ×1

XA 4Y PLUS (d=0.1mg)



Analytical balance ×1



Weighing pan x1



Anti-draft shield x1



Bottom insert x1



Power adapter* x1

XA 4Y.F



Analytical balance



Anti-draft Filter weighing shield pan ×1 ×1



Bottom insert ×1



Weighing pan ×1



Draft shield ×1



Centering ring ×1



Power adapter* ×1

AS 3Y



Analytical balance ×1



Weighing pan



Anti-draft shield ×1



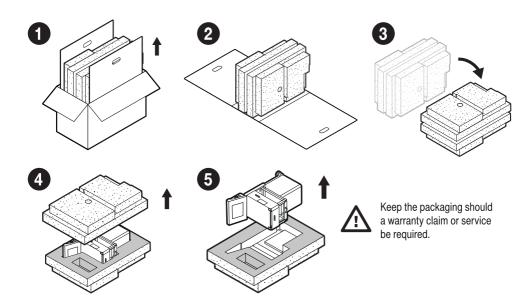
Bottom insert ×1



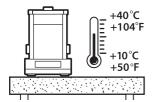
Power adapter*
×1

*The plug type may vary by country.

2. UNPACKING

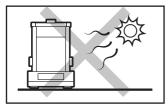


3. RECOMMENDATIONS AND WARNINGS

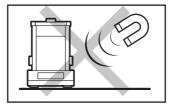


Operate the device in a room where the temperature ranges between 10–40 $^{\circ}$ C (50–104 $^{\circ}$ F) and where the relative humidity is below 80%. Temperature must change slowly and gradually.

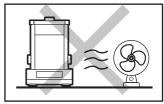
Using the anti-vibration table is recom-mended in order to enable the most stable and repeatable measurement.



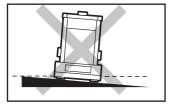
Place the balance away from heat sources. Avoid exposing the balance to the sunlight.



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.



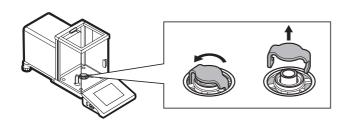
Do not place the balance on an unstable surface exposed to shocks and vibrations.



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

4. ACTIVITIES TO BE DONE PRIOR TO OPERATION

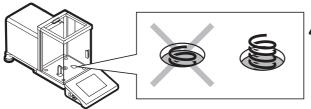
4.1. Transport lock removal





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

4.2. Grounding spring check



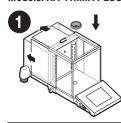


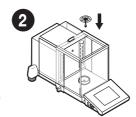
Check whether the earthing spring takes its intended location.

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

5. COMPONENTS ASSEMBLY

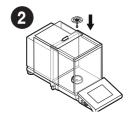
Models: XA 4Y.M.A PLUS



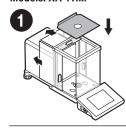


Models: XA 4Y.M.A





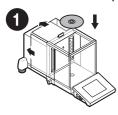
Models: XA 4Y.M







Models: XA 4Y.A PLUS (d=0.001g)

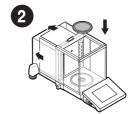




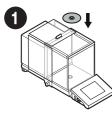


XA 4Y.A PLUS (d=0.01g)





XA 4Y.A (d=0.01g)







XA 4Y.A (d=0.01g)

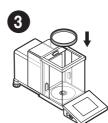




XA 4Y PLUS (d=0,001g)

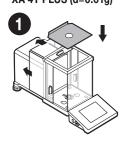


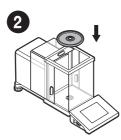






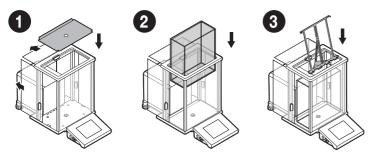
XA 4Y PLUS (d=0.01g)



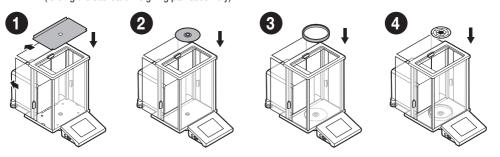




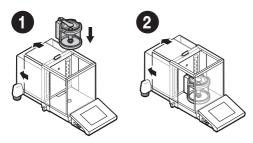
XA 4Y.F (folding the weighing pan assembly for filter weighing)

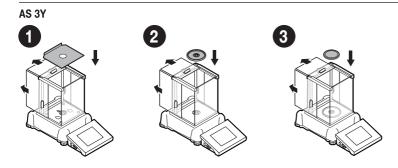


XA 4Y.F (folding the standard weighing pan assembly)



XA 4Y.M.A.P PLUS



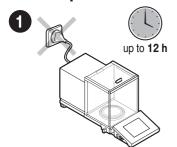


6. PREPARING FOR WORK

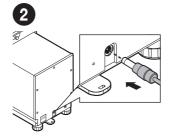


Place the device at the workstation, wait untilit reaches room temperature.

6.1. Temperature stabilization



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

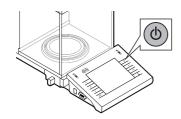


Connect the power adapter to DC connector located at the back of the device.



Connect the power adapter to the mains.

6.2. Switching the balance on



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

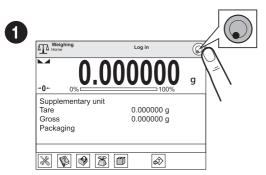


Confirm or cancel the start of the automatic adjustment process.

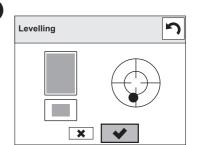
6.3.1. Balance levelling (for models with automatic levelling system only)



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:

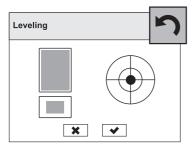


Press "Levelling" icon.



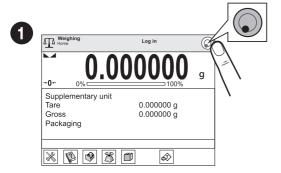
Confirm the automatic levelling process.



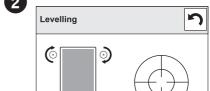


Balance has been levelled. To close the levelling window press 5 button.

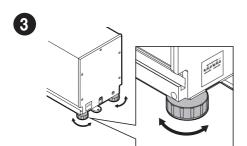
6.3.2. Balance levelling (for models with semi-automatic levelling only)



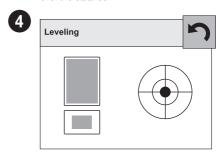
Press "Levelling" icon.



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.



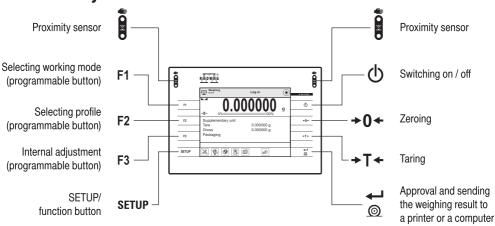
Balance has been levelled. To close the levelling window press 5 button.



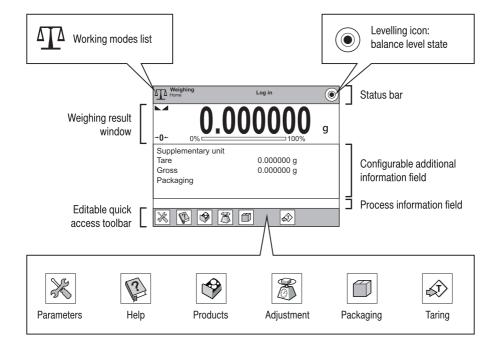
Your balance is ready to use!

7. PANEL AND SCREEN

7.1. Panel keys



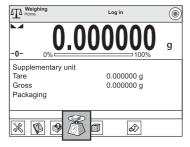
7.2. Home screen



8. BASIC OPERATIONS

8.1. Adjustment





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

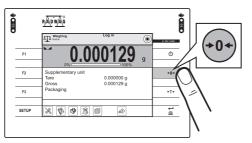
2



Adjustment completed. Press button for confirmation.

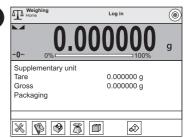
8.2. Zeroing





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

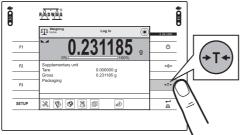




The balance has been zeroed.

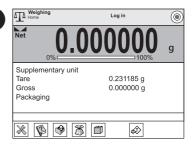
8.3. Taring





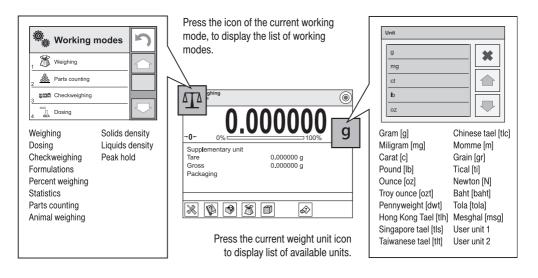
With loaded weighing pan: upon stabilisation of the weighing result, press "Tare" button.



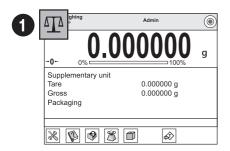


The balance has been tared.

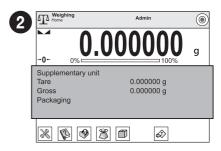
8.4. Working modes / units selection



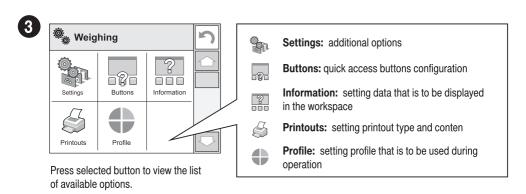
8.5. Working modes settings



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



Press information field to access current working mode options.



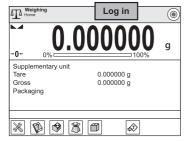
9. SETTINGS



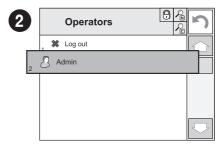
Some balance settings are accessible for Administrator exclusively. Prior to balance parameters setup, log in as the Administrator.

9.1. Administrator's logging in



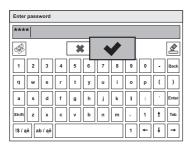


To enter "Users" menu press "Log in" button.

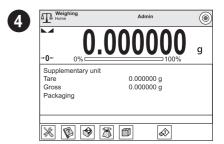


Users list is displayed, select "Admin" option.





Enter "1111" password and press button to confirm.



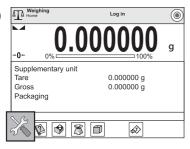
You have logged in as the Administrator.

9.2. User settings



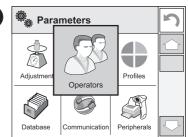
Prior to balance users setup, log in as Administrator (point 9.1.).



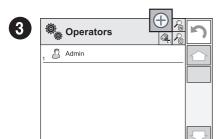


Press "Parameters" button.





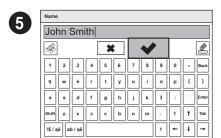
Press "Operators" button.



Press "Add" button.



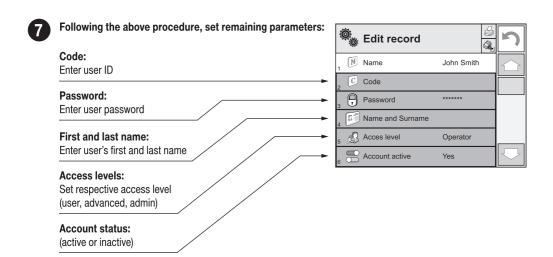
Select "Name" parameter.



Enter user name and press volume button to confirm.



User name has been entered.

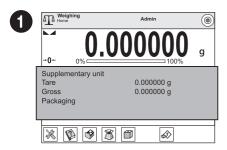


9.3. Proximity sensors setup

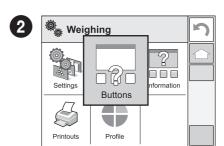


Prior to balance proximity sensors setup, log in as Administrator (point 9.1.).

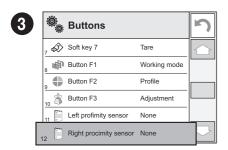
You can assign the proximity sensors with different functions for each working mode (the sensors will trigger different operation for each working mode). See the below procedure of sensors setup for the weighing mode.



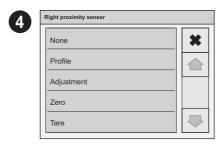
Press information field to access current working mode options.



Press "Buttons" button.



Select the appropriate sensor (right or left).

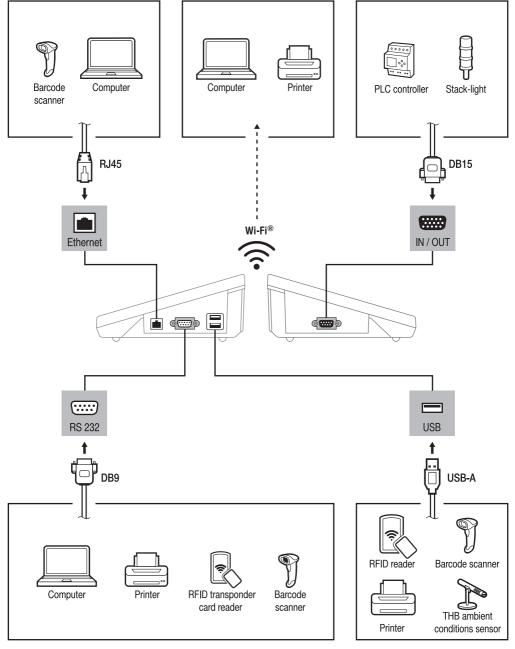


Select function that is to be assigned to the choosen sensor.



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

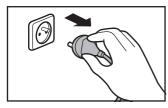
10. PERIPHERAL DEVICES CONNECTORS



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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



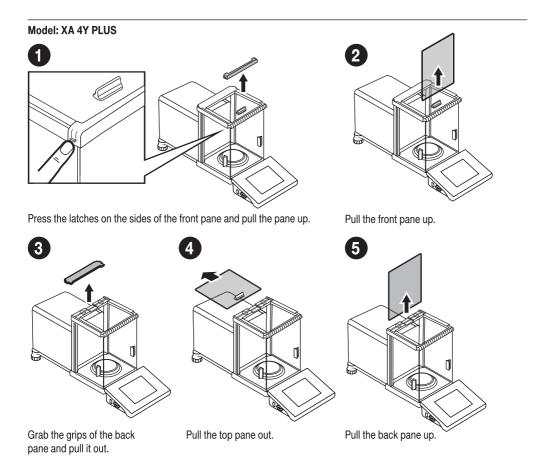
Shall it be necessary to disassemble the weighing chamber, follow the description provided in section 11.3.

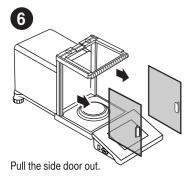
- GLASS PANES AND COMPONENTS can be cleaned using window cleaner.
- WEIGHING PANS AND STAINLESS STEEL OR ALUMINIUM COMPONENTS can be cleaned using a cloth slightly soaked in a solution of water and gentle cleanser (e.g. soap or dishwashing liquid).
- OPERATION PANEL AND HOUSING can be cleaned using a 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

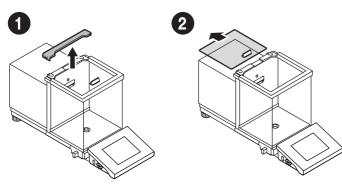


Prior disassembling weighing chamber elements make sure the balance is turned off and unplugged from the mains. When disassembling the elements, use tweezers that come standard with the instrument.



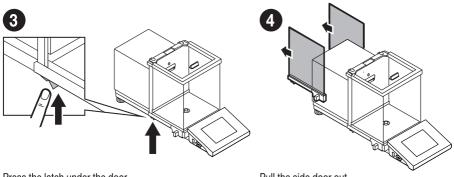


Models: XA 4Y.M.A PLUS | XA 4Y.A | XA 4Y PLUS



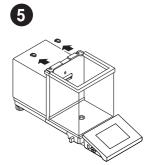
Grab the grips of the back pane and pull it out.

Pull the top pane out.



Press the latch under the door to release the lock.

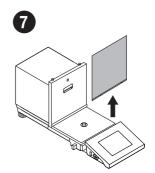
Pull the side door out.



Remove the hole plugs.



Remove the top frame.



Pull the front pane up.



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



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