



IMMB-05-01-09-20-EN

Start up Guide

# Precision Balances

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- PM 4Y
- WLY

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

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PM 4Y

[radwag.com/en/manuals/3657](http://radwag.com/en/manuals/3657)

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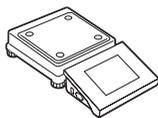


WLY

[radwag.com/en/manuals/3034](http://radwag.com/en/manuals/3034)

# 1. CONTENT

## Models: WLY D2



Precision balance  
x1



Weighing pan  
x1



Grounding foot  
x1

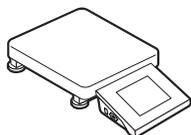


Foot  
x3



Power adapter\*  
x1

## Models: WLY F1

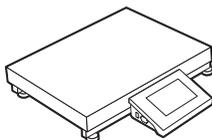


Precision balance  
x1



Power adapter\*  
x1

## Models: WLY C2 | PM 4Y (d ≥ 0,5 g)

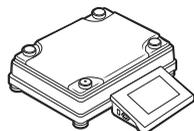


Precision balance  
x1

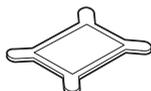


Power adapter\*  
x1

## Models: PM 4Y (d = 0,01 g)



Precision balance  
x1



Weighing pan  
x1

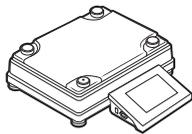


Power adapter\*  
x1

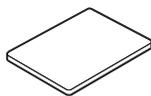
\*The plug type may vary by country.

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**Models: PM 4Y** (d = 0,1 g)



Precision balance  
x1



Weighing pan  
x1



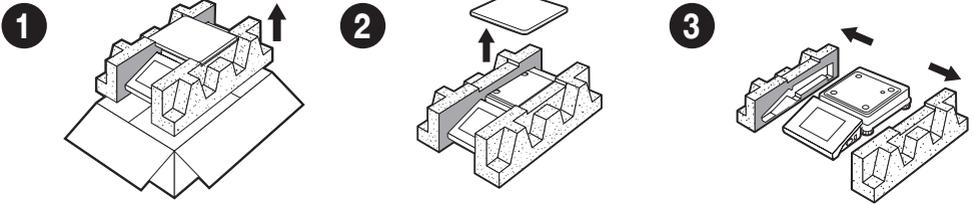
Power adapter\*  
x1

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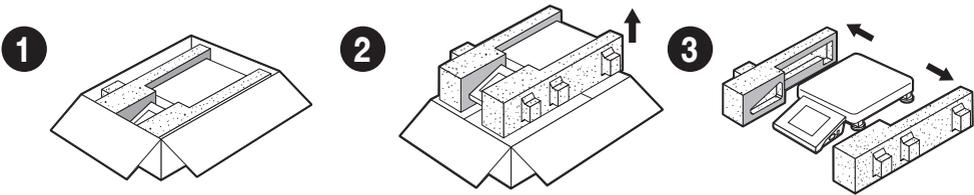
*\*The plug type may vary by country.*

## 2. UNPACKING

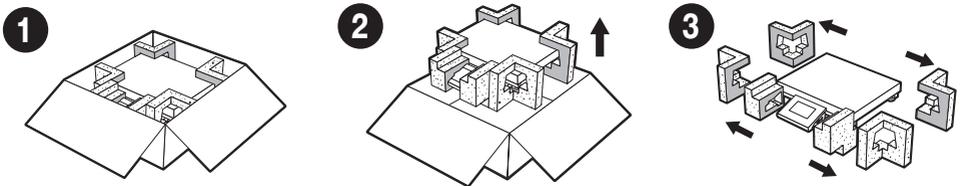
Models: WLY D2



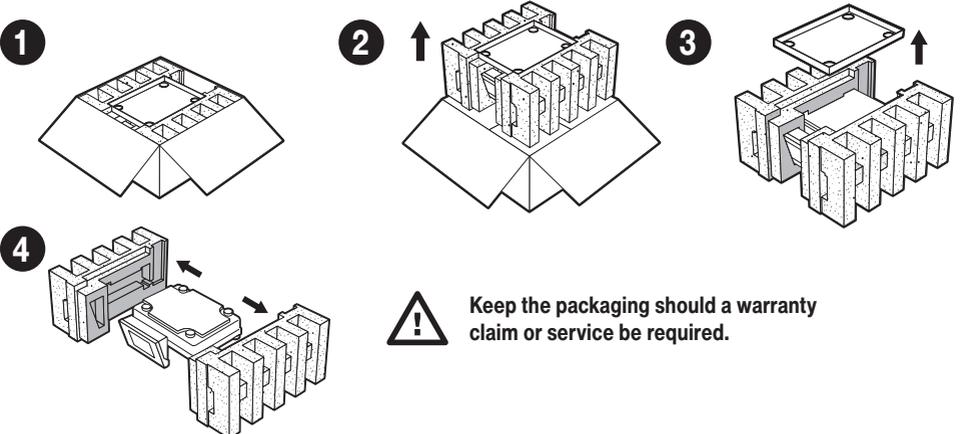
Models: WLY F1



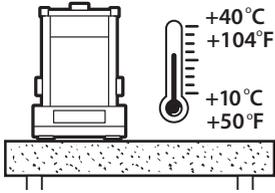
Models: WLY C2 | PM 4Y (d ≥ 0,5 g)



Models: PM 4Y (d ≤ 0,1 g)

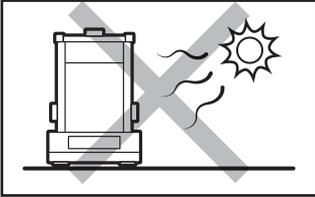


### 3. RECOMMENDATIONS AND WARNINGS

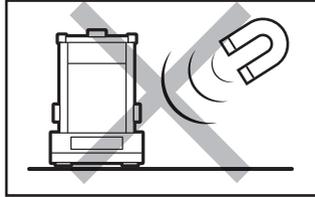


Operate the device in a room where the temperature ranges between 10–40 °C (50–104 °F) and where the relative humidity is below 80%. Temperature must change slowly and gradually.

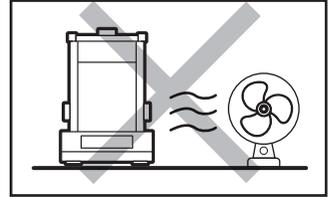
Using the anti-vibration table is recommended in order to enable the most stable and repeatable measurement.



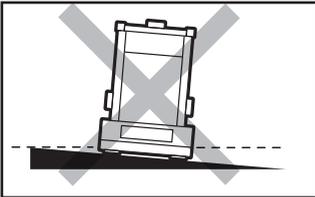
Place the balance away from heat sources. Avoid exposing the balance to the sunlight.



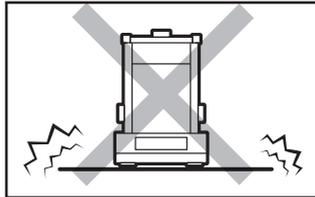
Avoid exposing the balance to a magnetic field. Do not weigh magnetic substances.



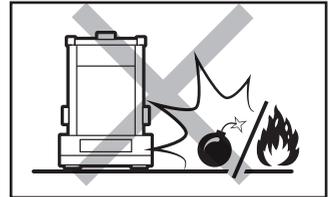
Avoid air drafts and air movements at the workstation.



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.

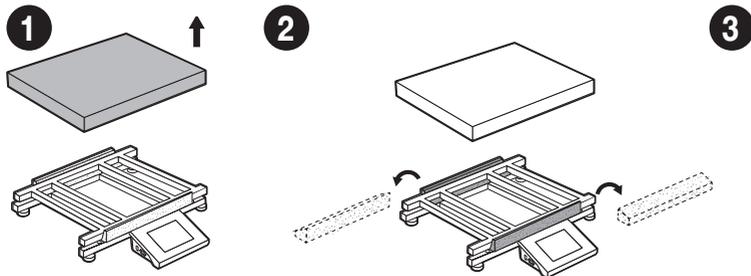


Not intended for usage within EX zones. Not intended for weighing explosive or flammable substances.

## 4. ACTIVITIES TO BE DONE PRIOR TO OPERATION

### 4.1. Transport lock removal

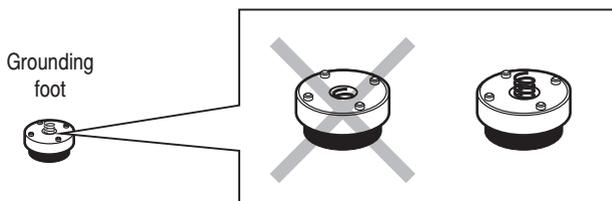
Models: WLY F1 | WLY C2 | PM 4Y (d  $\geq$  0,5 g)



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

### 4.2. Grounding spring check

Models: WLY D2



Check whether the grounding spring takes its intended location.

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

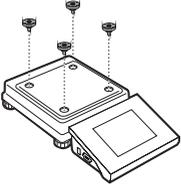


In models: PM 4Y | WLY F1 | WLY C2 | PM 4Y (d $\geq$ 0,5 g) earthing spring is factory pre-installed

# 5. COMPONENTS ASSEMBLY

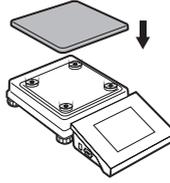
Models: WLY D2

1



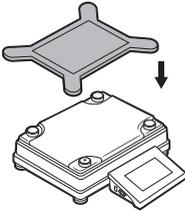
Install the  
grounding foot  
in a freely  
selected opening.

2

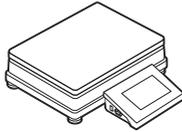


Models: PM 4Y (d = 0,01 g)

1

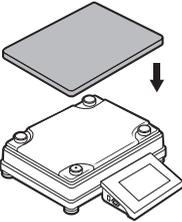


2

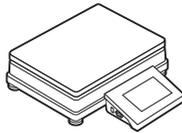


Models: PM 4Y (d ≤ 0,1 g)

1

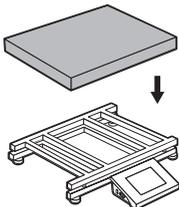


2

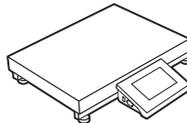


Models: WLY F1 | WLY C2 | PM 4Y (d ≥ 0,5 g)

1



2



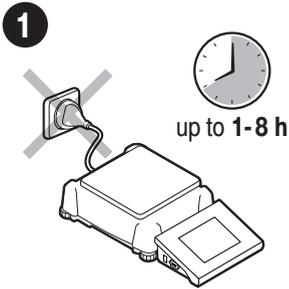
## 6. PREPARING FOR WORK



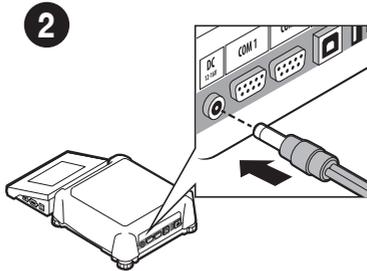
Place the device at the workstation, wait until it reaches room temperature.

### 6.1. Temperature stabilization

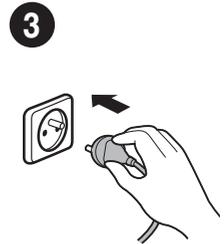
Models: WLY D2



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

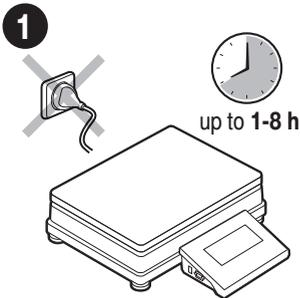


Connect the power adapter to DC connector.

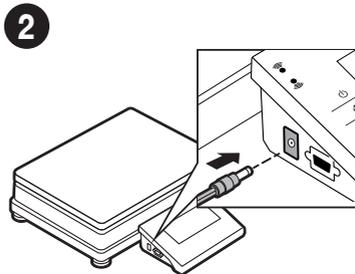


Connect the power adapter to the mains.

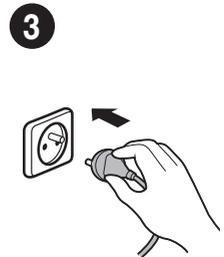
Models: WLY D2 | PM 4Y (d = 0,1 g)



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

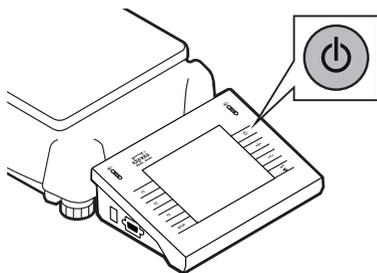


Connect the power adapter to DC connector.

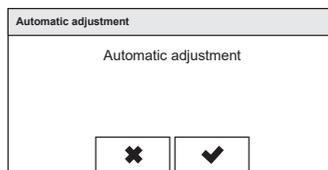


Connect the power adapter to the mains.

## 6.2. Switching the balance on



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

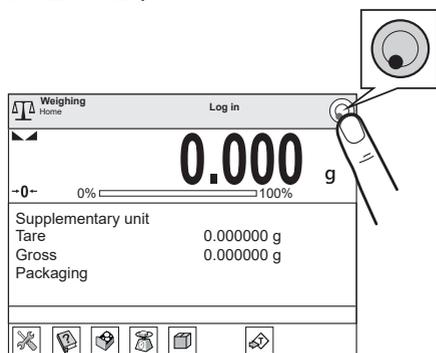


Confirm or cancel the start of the automatic adjustment process.

## 6.3. Balance levelling

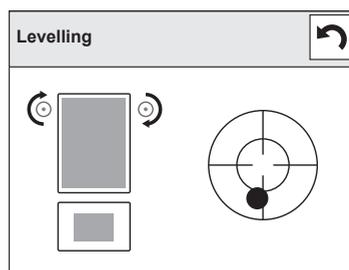
Models: PS 250.3Y.M | PM 50.4Y

1



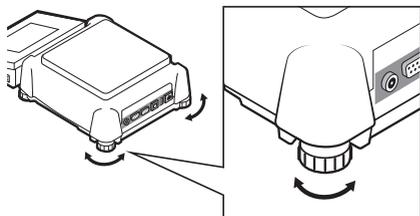
Press "Leveling" icon.

2



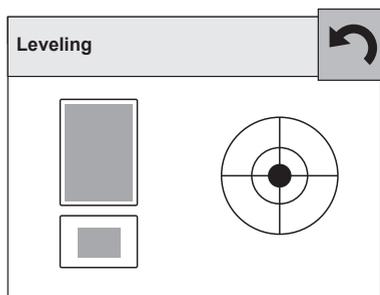
Check the balance level state.  
The arrows shows how to move the balance foots to level the balance.

3



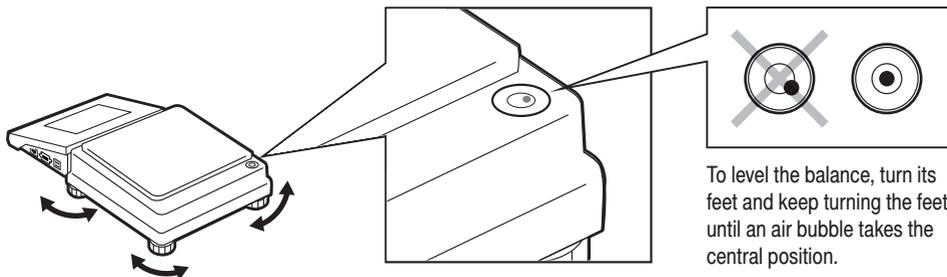
To level the balance turn its feet, keep turning the feet until the level indicator takes central position.

4



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

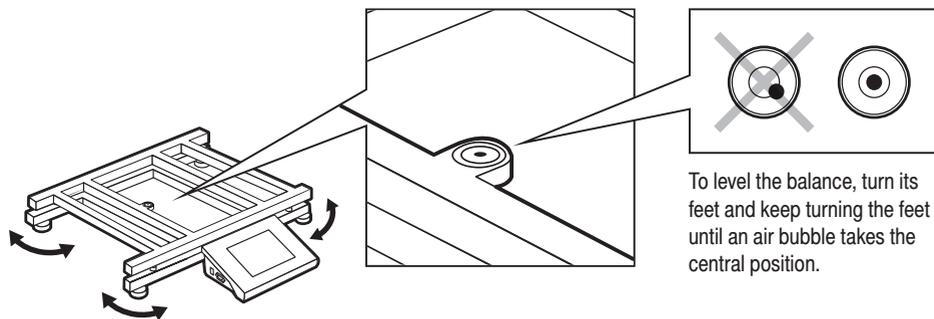
Models: WLY D2



Models: WLY F1 | WLY C2 | PM 4Y (d = 0,1 g)



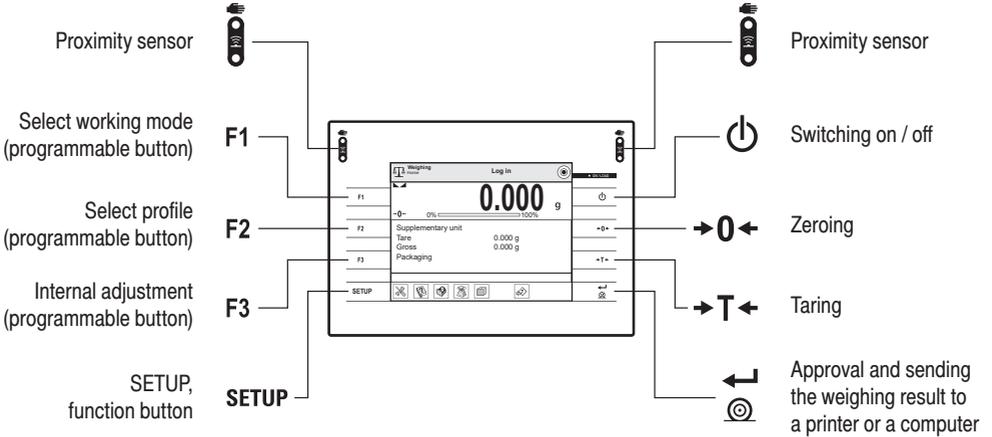
Before leveling the balance, remove the weighing pan. After leveling put the weighing pan again. The operation described in pt. 4



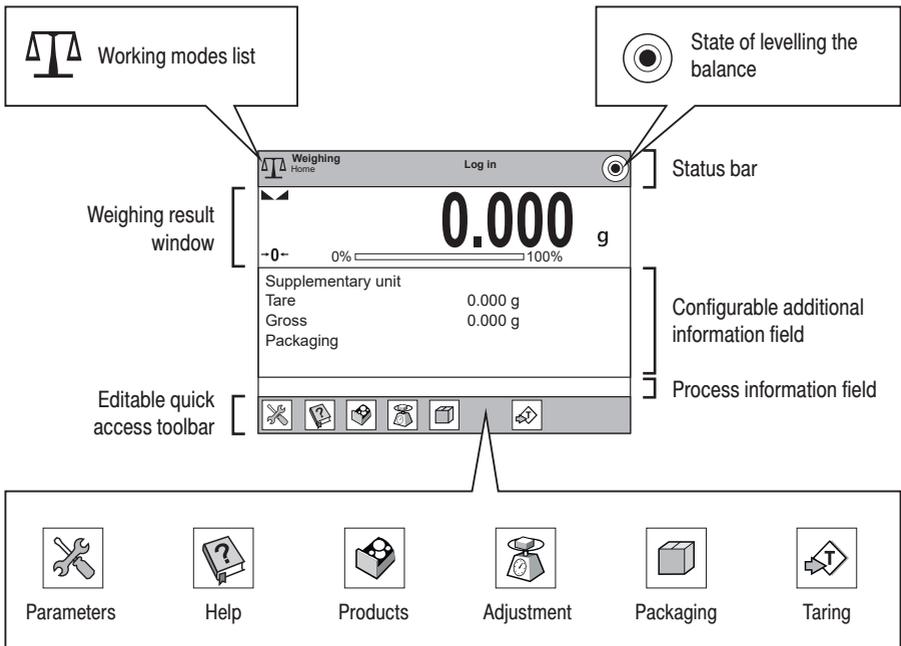
Your balance is ready to use!

# 7. PANEL AND SCREEN

## 7.1. Panel keys



## 7.2. Home screen



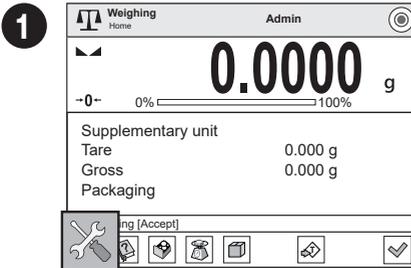
# 8. BASIC OPERATIONS

## 8.1. Adjustment (for models whit external adjustment)

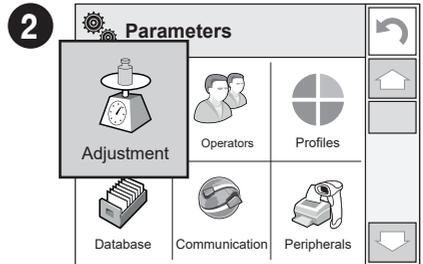
External adjustment is carried out using an external mass standard of the right accuracy and weight value, which value depends on balance type and capacity.

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

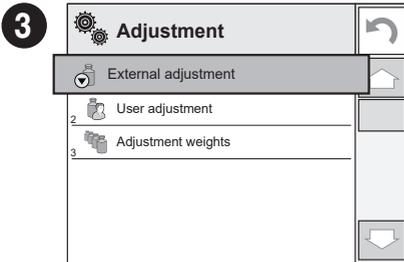
| Balance model | Mass standard [g] |
|---------------|-------------------|
| PM 15.4Y      | 10000 g           |
| PM 60.1.4Y    | 50000 g           |
| PM 60.05.4Y   | 50000 g           |
| PS 3000.3Y    | 5000 g            |
| PS 10100.3Y.M | 5000 g            |
| WLY 1/D2      | 1000 g            |
| WLY 2/D2      | 2000 g            |
| WLY 10/D2     | 10000 g           |
| WLY 12/F1     | 10000 g           |
| WLY 20/D2     | 20000 g           |
| WLY 30/F1     | 20000 g           |
| WLY 120/C2    | 100000 g          |



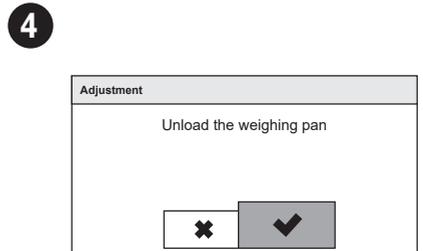
Press "Parameters" button.



Press "Adjustment" button.

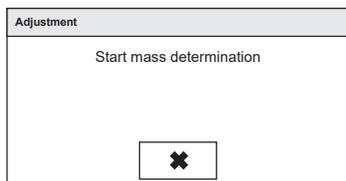


Press "External Adjustment" parameter.



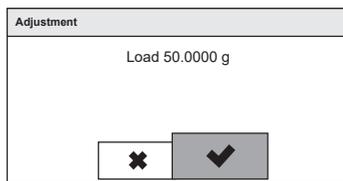
Unload the weighing pan and press  button for confirmation.

5



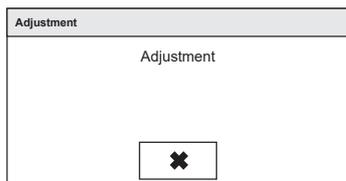
Determination of start mass in progress. Wait for determination completion.

6



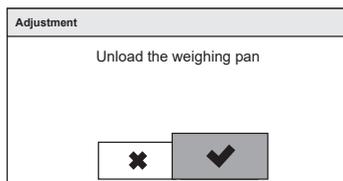
Load the weighing pan with mass standard and press  button for confirmation.

7



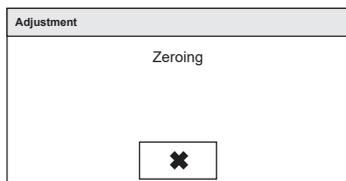
Wait for the process completion.

8



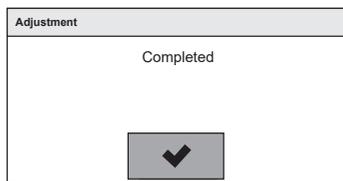
Unload the weighing pan and press  button for confirmation.

9



Zeroing in progress. Wait for zeroing completion.

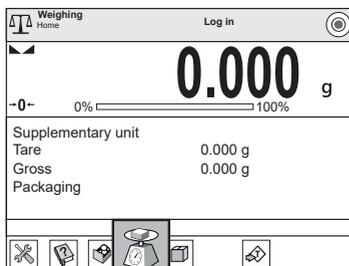
10



Adjustment completed. Press  button for confirmation.

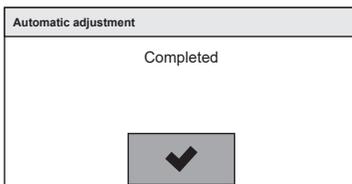
## 8.2. Adjustment (for models whit automatic adjustment)

1



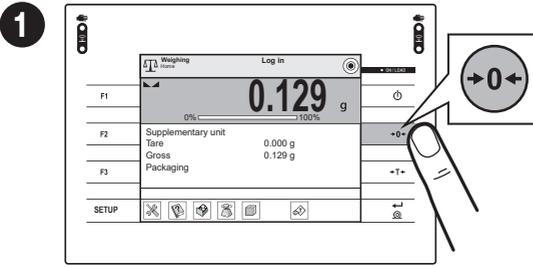
Press "Adjustment" button and wait for completion of the adjustment proces.

2

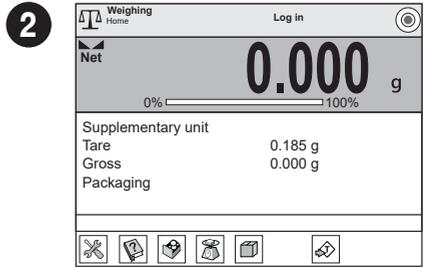


Adjustment completed. Press  button for confirmation.

## 8.3. Zeroing

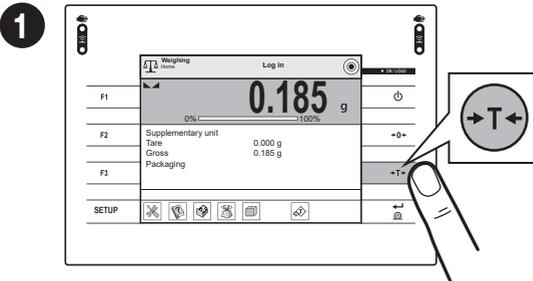


Make sure that the weighing pan is empty and press "Zeroing" button.

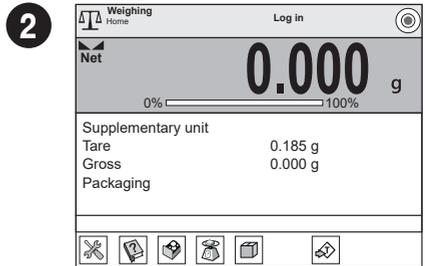


The balance has been zeroed.

## 8.4. Taring



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



Balance has been tared.

## 8.5. Working modes / units selection

**Working modes**

- 1 Weighing
- 2 Parts counting
- 3 Checkweighing
- 4 Dosing

Weighing      Solids density  
Dosing          Liquids density  
Checkweighing      Peak hold  
Formulations  
Percent weighing  
Statistics  
Parts counting  
Animal weighing

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

g

0.000

0% 100%

Supplementary unit  
Tare 0.000 g  
Gross 0.000 g  
Packaging

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

**Unit**

g  
mg  
ct  
lb  
oz

|                      |                    |
|----------------------|--------------------|
| Gram [g]             | Chinese tael [tlc] |
| Miligram [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 [tth] | Mesghal [msg]      |
| Singapore tael [tls] | User unit 1        |
| Taiwanese tael [ttt] | User unit 2        |

## 8.6. Working modes settings

**1**

g

0.000

0% 100%

Supplementary unit  
Tare 0.000 g  
Gross 0.000 g  
Packaging

Press "Working mode" icon and select respective working mode.

**2**

g

0.000

0% 100%

Supplementary unit  
Tare 0.000 g  
Gross 0.000 g  
Packaging

Press information field to access current working mode options.

**3**

**Weighing**

Settings      Buttons      Information

Printouts      Profile

Press selected button to view the list of available options.

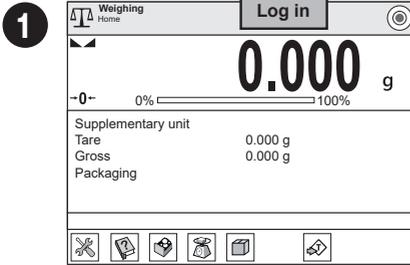
- Settings:** additional options
- Buttons:** quick access buttons configuration
- Information:** setting data that is to be displayed in the workspace
- Printouts:** setting printout type and conten
- Profile:** setting profile that is to be used during operation

## 9. SETTINGS

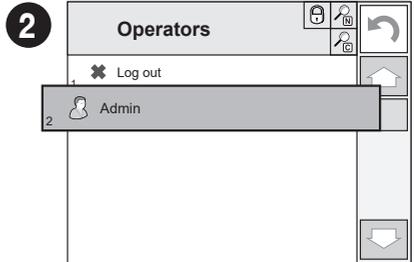


Some balance settings are accessible for Administrator exclusively.  
Prior balance parameters setup, log in as the Administrator.

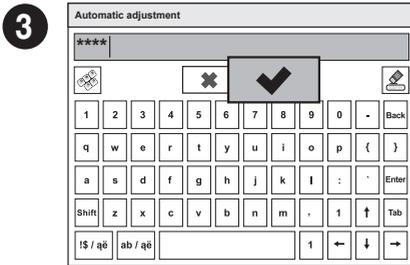
### 9.1. Administrator's logging in



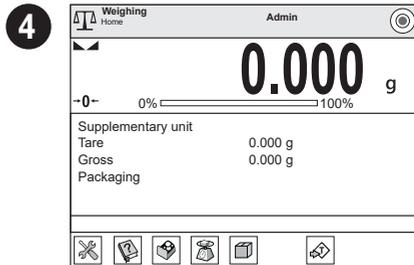
To enter "Users" menu press "Log in" button.



Users list is displayed, select "Admin" option.



Enter "1111" password and press  button to confirm.

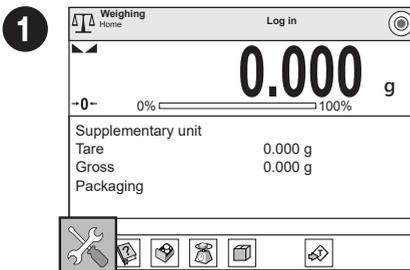


You have logged in the administrator.

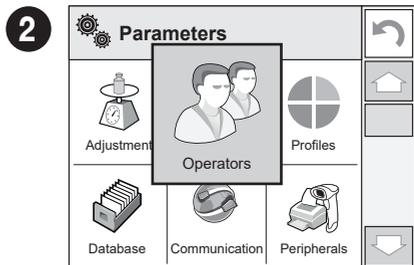
### 9.2. User settings



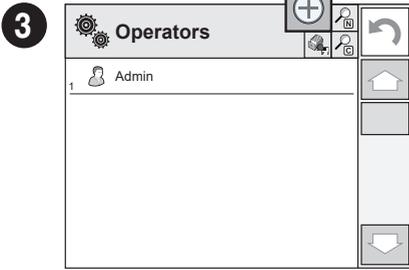
Prior balance users setup, log in as Administrator (point 9.1.).



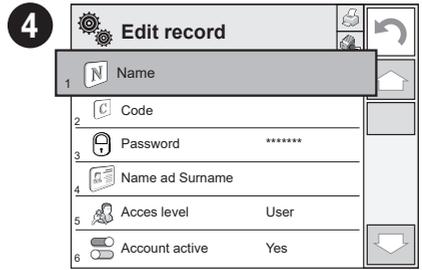
Press "Parameters" button.



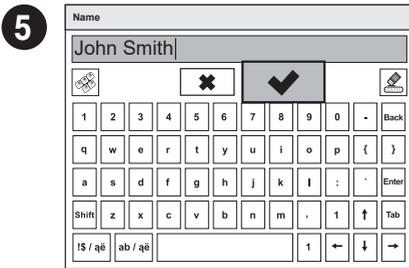
Press "Operators" button.



Press "Add" button.



Select "Name" parameter.



Enter user name and press  button to confirm.



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:**

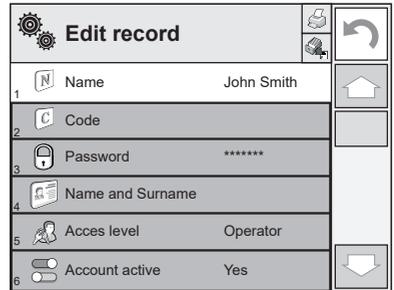
Enter user's first and last name

**Access levels:**

Set respective access level  
(user, advanced, admin)

**Account status:**

(active or inactive)

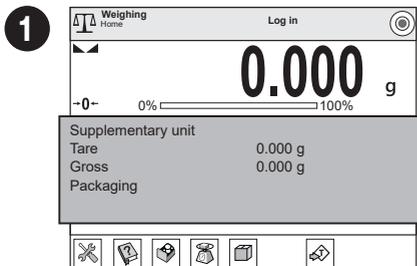


## 9.3. Proximity sensors setup

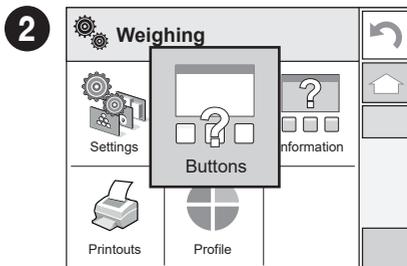


Prior balance proximity sensors setup, log in as Administrator (point 9.1.).

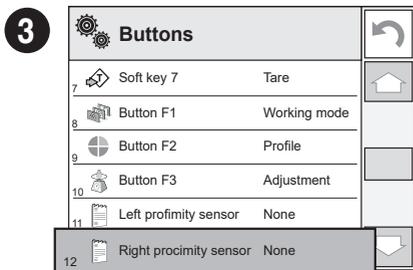
You can assign the proximity sensors with different functions for each working mode (the sensors will trigger different operation for each working mode). The diagram presents sensors setup for the weighing mode.



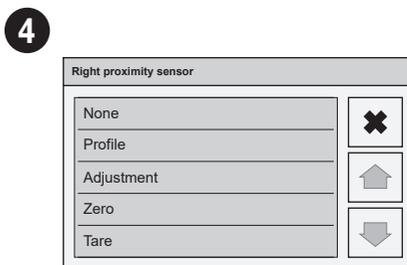
Press information field to access current working mode options.



Press "Buttons" button.



Select the appropriate sensor (right or left).

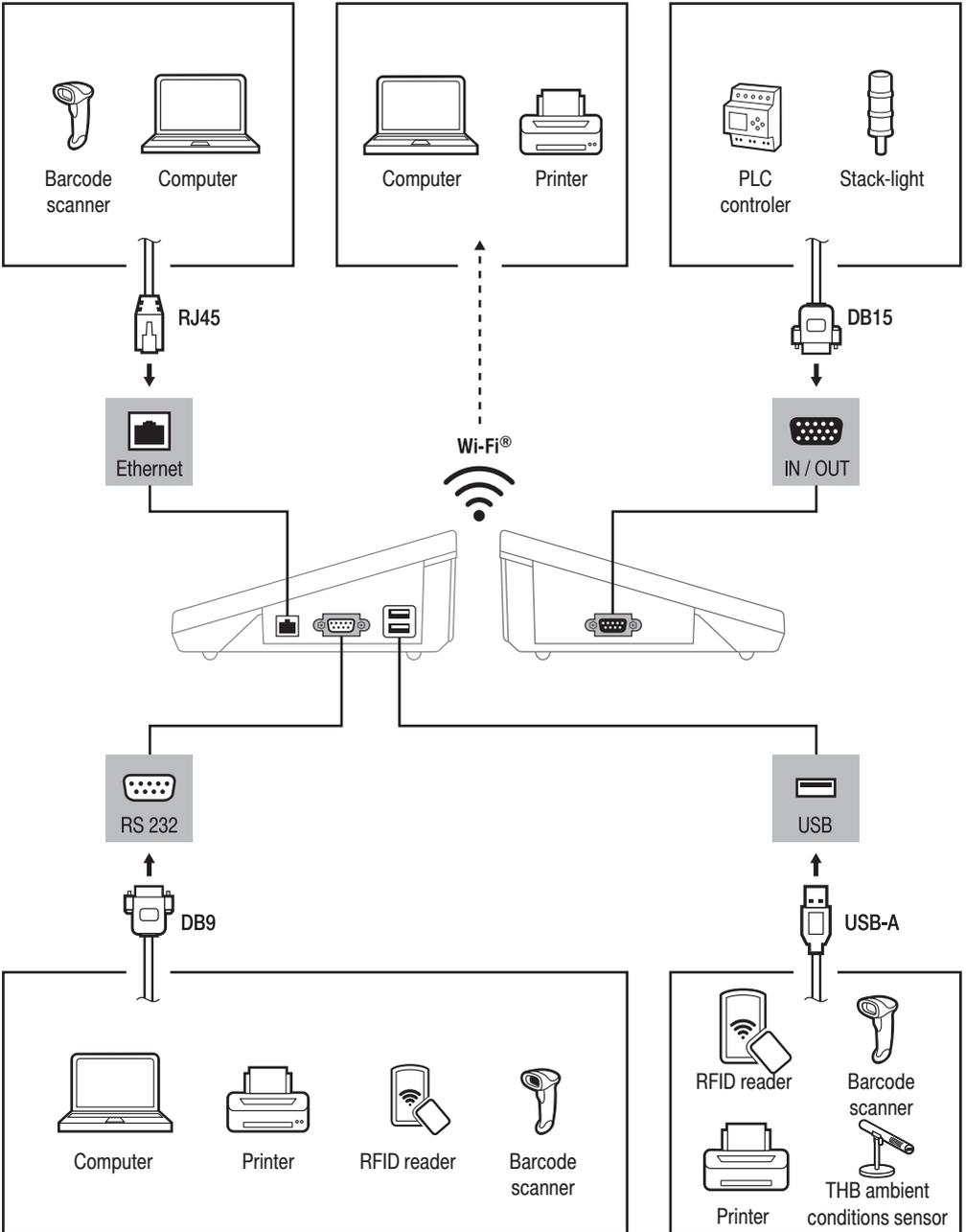


Select function that is to be assigned to the chosen sensor.



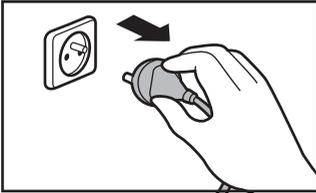
Following the above procedure you can configure sensors for other working modes.

# 10. PERIPHERAL DEVICES CONNECTORS

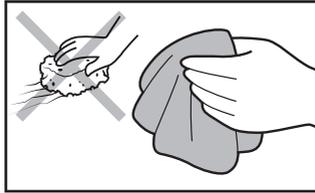


# 11. DEVICE CLEANING

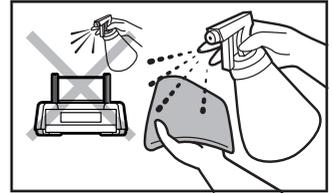
## 11.1. Guidelines and precautions



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

- **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.**







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