

Mahlkönig Sync App



User Manual

Sync Scale





This scale is designed to withstand minor exposure to splashes, steam mist, or coffee dribbles during normal use. However, it is not waterproof. Do not soak, submerge, or immerse the scale in water or any other liquid. Any such exposure may result in permanent damage. We explicitly warn against placing the scale in sinks, dishwashers, or any environment where it may be submerged.

Additionally, damage resulting from accidental drops, impacts, or mishandling is considered user misuse and is not covered under warranty. **Please handle the scale with care to ensure optimal performance and longevity.**

In the Box

Introduction **0 5**

Scale Overview

Main Parts & Display Indicators **0 6 / 0 7**

Specifications **0 8**

Getting Started

Cautionary Notes **0 9**

Calibration Instructions **0 9**

Battery Charing Instructions **1 0**

Operation

Menu Navigation **1 0**

Scale Modes **1 1 / 1 3**

Menu Structure & Configuration Items **1 4 / 1 5**

Error Codes **1 6**

Mahlkönig Sync App Connectivity

Onboarding **1 7 - 1 9**

Syncing **2 0**

Unsyncing **2 2**

Off-Boarding **2 4**

Using the Scale with GbS Grinders

2 6

Lithium-Ion Battery Safety Guidelines

2 8

In the Box

Introduction



Introducing the Mahlkönig Sync Scale – the ultimate smart scale designed to elevate your coffee brewing experience. Equipped with built-in Sync System Technology, it seamlessly connects to the Mahlkönig Sync App, delivering enhanced precision, efficiency, and control with every brew. Before getting started, check that your

Mahlkönig Sync Scale includes all the parts listed below:

Mahlkönig Sync Scale
Heat-Resistant Pad
Micro USB-C Cable (80 cm)
100 g Calibration Weight

Next, follow the instructions in the “Getting Started” section to begin using your Mahlkönig Sync Scale. To make the most of its advanced features, be sure to read through the manual carefully—it includes step-by-step guides, examples, and essential information for optimal use.

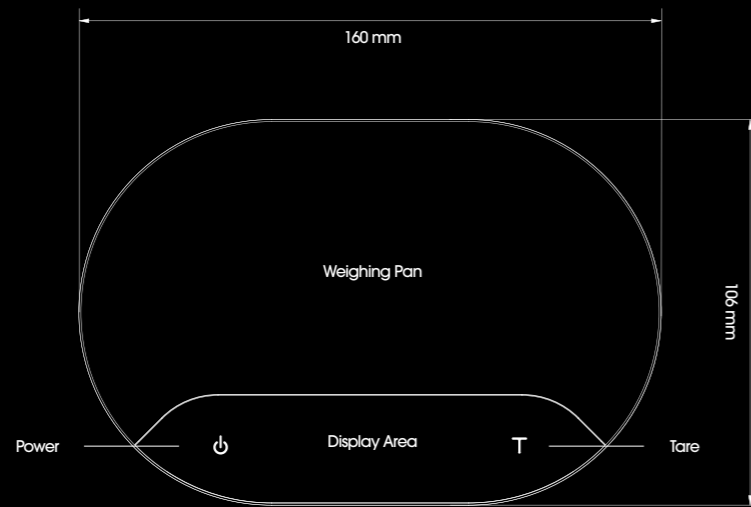


WARNING:

Incorrect handling of this product could result in personal injury or physical damage.

The Sync Scale Overview

Main Parts & Display Indicators









The scale consists of top housing and a bottom plate. The top housing, "working area", consists of the following:

Display Area:

Incorporating touch power button, tare button, and an LED display

Weighing Pan:

This is where any weight should be placed

	Battery Charge	<ul style="list-style-type: none"> Indicator turns ON during charging and turns OFF when charge reaches 100% or when the USB is disconnected. Indicator blinks with low frequency when charge drops below 10% Indicator blinks with high frequency when charge drops below 5% "BAT LOW" message will be displayed prior to the scale shutting down.
	Timer Starts with Flow	<ul style="list-style-type: none"> The icon is displayed when the user is in flow detection mode This icon is also used to indicate confirmation or saving in other when configuring the scale
	Manual Timer	<ul style="list-style-type: none"> The icon is displayed when the user is in manual timer weighing modes.
	Auto Tare Operation	<ul style="list-style-type: none"> The icon is displayed when the user has the auto-tare function enabled.
	WiFi Enabled	<ul style="list-style-type: none"> During onboarding, the Wi-Fi icon will blink when available networks are detected and will remain steady once it has successfully onboarded. If the icon is not visible, it means Wi-Fi is disabled.
	Ounce Unit	<ul style="list-style-type: none"> Displayed when the user enables ounces as the unit for measuring weight.

Note: The Sync Scale's internal electronics are protected by a special water resistant coating, offering protection against spills and splashes. However, it is not water proof. Submerging the scale in water or directly spraying water into openings, especially near electronics may result in permanent damage.

Technical Details

Product Weight	264 g
Product Dimensions	106 x 160 x 16 mm (wxhxd)
Maximum Capacity	2000 g / 70.55 oz
Minimum Weight	0.1 g
Measuring Units	g / oz
Readability	0.1 g
Repeatability	0.1 g
Linearity	1 d (d = 0.1 g)
Indication Limit	2060 g
Power Supply	5V / 1A
Battery	Lithium-Ion Rechargeable 3.7V 1850mAh
Battery Life	13 hours with WiFi / 17 hours without WiFi
Display	LED
Material	Body: Aluminum, Acrylic Display: Heat-Resistant Glass
Connectivity	WiFi (2.4Ghz)

Getting Started

Cautionary Notes for Best Operation

Calibration: ensure to follow the calibration instructions.

Battery: please take care to charge the battery fully once it's emptied.

Placement of the scale: for the best experience, please place the scale on a stable, vibration-free surface. It will automatically be ready for use once it's set on a solid platform. Keep in mind, the scale won't be ready to be used unless it's resting on a surface.

Placement of weights: if only one weight, place the weight on the center of the weighing pan. If two weights, e.g. two cups, place the cups side by side

Steam, water, and heat exposure: The scale is built to resist hot water and steam from above; however, to ensure long-term performance, exposure should be minimized. Always use the heat mat during operation to protect the device. If the scale is exposed to steam for an extended period, move it aside and allow it to cool completely before resuming use to restore normal operation.

Calibration Instructions

To calibrate the Mahlkönig Sync Scale turn on the scale and grab the 100 g calibration weight that was provided.

1. Press and hold the tare key (0.5 s) to open the home menu.
2. Once the display starts to blink, tap the tare key to find "Cal", then press and hold it (0.5s) to start calibration.
3. When "WGt 100" appears, place a 100 g weight on the pan.
4. Wait for "Save" and "CAL_END_" to confirm completion.
5. The scale will return to the saved mode.

Note: You can use a 500 g or 1000 g calibration weight by adjusting the setting in the menu. To exit the calibration process, tap either the power or tare key.

Battery Charging Instructions





You can charge the battery by plugging the USB C cable into any of the power supplies listed below:

- A computer
- A USB wall charger with an output of 5 Volts and 1A.
- A DC car charger with an output of 5 Volts and 1A.
- It takes approximately 2-3 hours to fully charge the battery from empty.
- The battery percentage can be viewed in the setting menu.

Note: To ensure safe and optimal charging, use only a power adapter rated at 5V/1A. Using a charger with a higher voltage or current may damage the scale's battery.




Operation

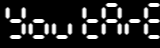
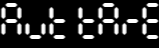







Menu Navigation

Action	Button	Press Type
Power ON		Press & Hold for 0.5 s
Power OFF		Double tap
Enter Menu (Edit) & Confirm Selection	T	Press & Hold for 0.5 s
Scroll DOWN	T	Single Tap
Scroll UP		Single Tap
Return To Previous Menu		Press & Hold for 0.5 s

Note: If you're in a sub-menu, you can quickly return to the saved mode by pressing the weighing pan for more than 3 seconds.

Scale Modes

Manual Tare	T	Manual taring sets the scale to zero. To do this, place the recipient on the scale and press the tare key.
Auto Tare		Auto taring resets the scale to zero automatically once the weight is stable. Just place the recipient on the scale, and it will tare itself once weight is stable.
Manual Timer		Manual timer lets you time the brewing process. Tap the power key to control the timer — the first tap starts it and the second tap stops it.
Flow Detection Timer		Flow detection timer tracks brewing time automatically. It starts when liquid is poured and stops when the flow ends.

Mode	1	2	3	4	5
Types	Weighing Modes		Brewing Modes		
Mode Name	Manual Tare 	Auto Tare 	Manual Tare + Manual Timer 	Auto Tare + Manual Timer 	Auto Tare + Flow Detection Timer 
Symbol	T				
GbS Enabled	No	No	No	Yes	Yes
Mobile App Live Diagram	No		Yes		
Display	Weight shown on the right		Timer shown on the left and weight on the right		
Unit	(0.0) for g (0.000) for OZ		(0:00 0.0) for seconds and g (0:00 0.000) for seconds and OZ		
Notes			The timer displays from (0:00) to (9:59) and then stop		

Mode	Mode Name	Behavior
1	You TARE	In "You Tare" mode, only the weight is displayed, and the user must manually perform a tare to reset the scale to zero.
2	Auto TARE	In "Auto Tare" mode, the scale displays only the weight and automatically tares itself when the weight of the recipient has stabilized.
3	You TIME	In "You Time" mode, the user has full control over taring the scale as well as starting and stopping the timer.
		<p>Workflow</p> <ul style="list-style-type: none"> Place the recipient on the scale. Manually tare the scale to reset the weight to zero. Manually start the timer when needed. Manually stop the timer when needed. <p>Note: Tap the power key to control the timer — the first tap starts it, the second tap stops it, and the third tap resets it. To reset the weight, press the tare key.</p>
4	You GbS	In "You GbS" mode, the grinder automatically adjusts the grind size if it is synced to a grinder and a valid brew event has occurred. In this mode, the scale also tares automatically when a recipient is placed on it. The user can then start and stop the timer at their discretion.
		<p>Workflow</p> <ul style="list-style-type: none"> Place the recipient on the scale. The scale will automatically tare. Manually start the timer when needed. Manually stop the timer when needed. Once the brew event is complete, remove the recipient from the scale. The scale will reset both the timer and the weight at this moment. <p>Note: Tap the power key to control the timer — the first tap starts it and the second tap stops it.</p> <p>Note: If the user interferes with the brew event, it will be deemed invalid, resulting in the termination of the brew process. In such cases, the grinder will not make any adjustments. (e.g., removing the recipient before the timer was stopped manually)</p> <p>Note: Once the timer starts, switching modes is disabled. Please wait until the brewing process is complete, or remove the recipient from the scale to trigger a reset.</p>

Mode	Mode Name	Behavior
5	Auto GbS	In "Auto GbS" mode, the grinder automatically adjusts the grind size if it is synced to a grinder and a valid brew event has occurred. In this mode the scale automatically tares when a recipient is placed on it. The timer starts as liquid is poured into the recipient and stops when pouring ends.
		<p>Workflow</p> <ul style="list-style-type: none"> Place the recipient on the scale. The scale will automatically tare. The timer starts automatically when brewing begins. The timer stops automatically when brewing ends. Once the brew event is complete, remove the recipient from the scale. The scale will reset both the timer and the weight at this moment. <p>Note: In this mode, once the timer stops due to the end of flow, it will not restart automatically if pouring resumes.</p> <p>Note: If the user interferes with the brew event, it will be deemed invalid, resulting in the termination of the brew process. In such cases, the grinder will not make any adjustments. (e.g., removing the recipient before the timer stops due to the flow ending)</p> <p>Note: Once the timer starts, switching modes is disabled. Please wait until the brewing process is complete, or remove the recipient from the scale to trigger a reset.</p>

Menu Structure & Configuration Items

Level 1 (Home Menus)	Level 2 (Extended Menus)	Level 3 (Options)	Display	Default	Description
Mode 1 - You Tare			You TARE	(0.0)	Refer to Scale Modes Section
Mode 2 - Aut Tare			Aut TARE	(0.0)	Refer to Scale Modes Section
Mode 3 - You Time			You TIME	(0:00 0.0)	Refer to Scale Modes Section
Mode 4 - You GbS			You GbS	(0:00 0.0)	Refer to Scale Modes Section
Mode 5 - Aut GbS			Aut GbS	(0:00 0.0)	Refer to Scale Modes Section
Setup Menu	Enable WiFi	ON /OFF	Enb WiFi	ON	You can turn ON or OFF the wireless network on a device.
	Reset WiFi	Yes	rSt WiFi		You can reset the device to restore it to a new default network.
	Default Weighing Unit	g / oz	Unit	g	Measuring unit used for weighing.
	Brightness	LOW, MED, HIGH	brIGHt	LOW	Brightness level of the display.
	Standby Timer	OFF, 30 s, 1 min, 2 min, 5 min	StAndby		The scale will enter standby mode after the configured time range—either the default value or a user-defined setting—has elapsed. If the device is not charging, the display will turn off and the icons will blink to indicate standby status. If the device is being charged, the display will dim to its lowest brightness and show the current battery level. After 30 minutes in standby mode, the scale will power off.

Level 1 (Home Menus)	Level 2 (Extended Menus)	Level 3 (Options)	Display	Default	Description
Setup Menu	Buzzer Setting	ON /OFF	beeP	ON	Option to turn the buzzer ON/OFF.
	Zero Tracking Setting	OFF, 0.5, 1, 2, 3	zEr tRACE	OFF	Zero Tracking is a function for automatically maintaining the zero indication within certain limits. (e.g. Zero Tracking is set to 3 cl, any initial weight between ± 0.3 g on the weighing pan will be zeroed out)
	Weighing Filter	Normal, Slow, Fast	Filter	Normal	This setting reduces environmental noise, such as platform vibrations, by adjusting the scale's response speed. For vibrating surfaces, a slower setting is recommended.
	Calibration Weight	100, 500, 1000	CAL 10t	100	Weight options to calibrate the scale.
	Software Update	Yes	SftUPdt		Software update allows the user to update the scale to the latest firm-ware version when it has been released.
Calibration Menu	Factory Reset	Yes	FACtRES		Reset the scale to its original default settings.
			CAL		This feature will allow to calibrate the scale.
Info Menu	Battery Status		batStAt		Displays battery status in percentage.
	Device Serial Number		dEjNumb		Displays the device serial number (needed during App pairing).
	Firmware Version		firNVer		Displays the firmware version of the scale.

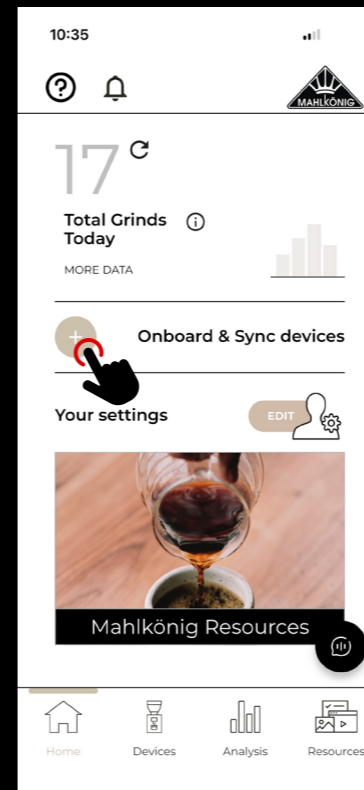
Error Codes

Error Code	Description
OVERLOAD	This error indicates that the weight on the scale exceeds 2000 g.
UNSTABLE	When the weight exceeds five digits (e.g. -1255.9), the display will show "dSP Err" *Tap the tare key to exit from this error.
BADLOAD	This error indicates that the weight is not stable when in calibration mode.
PLSCALIB	This error indicates that the weight is not standard when calibrating the scale.

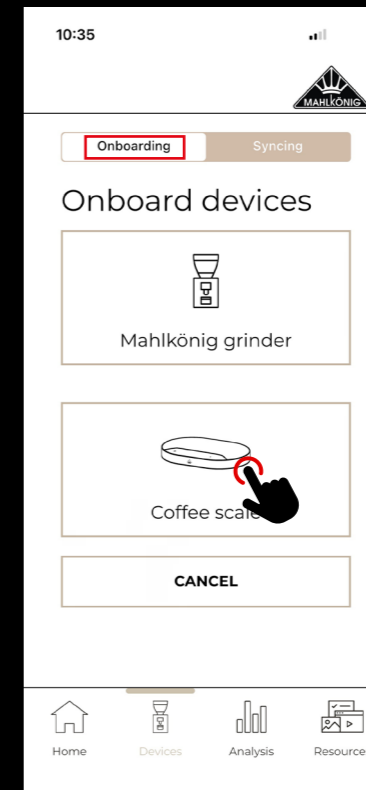
Mahlkönig Sync App Connectivity

Onboarding

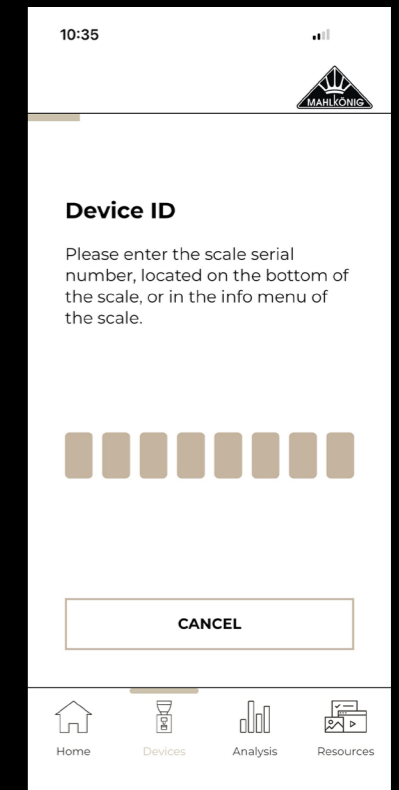
Download or Open the **Mahlkönig Sync App** and follow the registration instructions. After successful registration follow the steps below (WiFi of the Sync Scale must be activated):



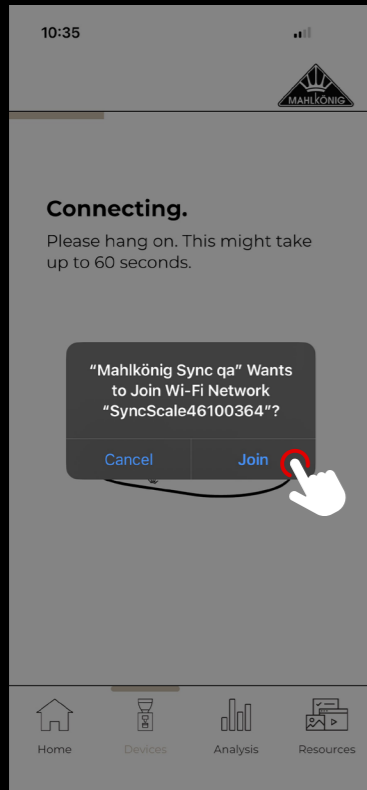
Select **"Onboard & Sync devices"** on the Home screen.



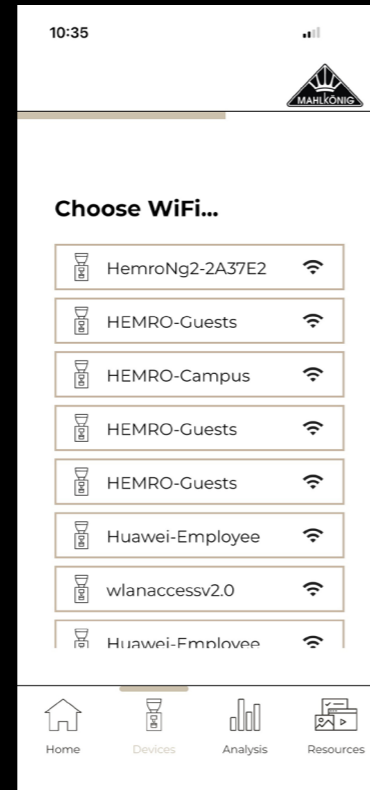
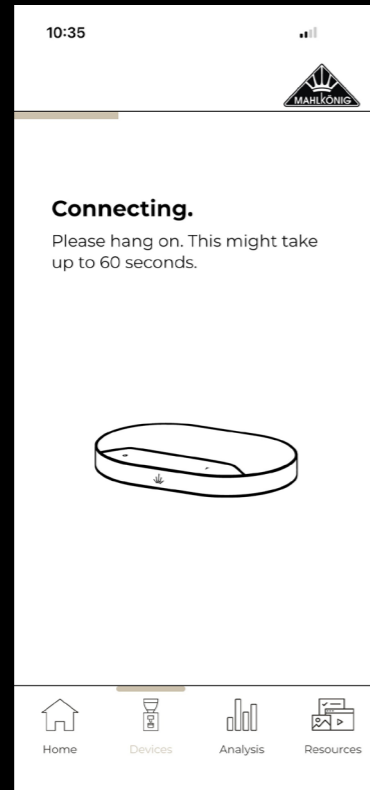
Select **"Onboarding"** and choose **"Coffee scale"** on the Devices screen.



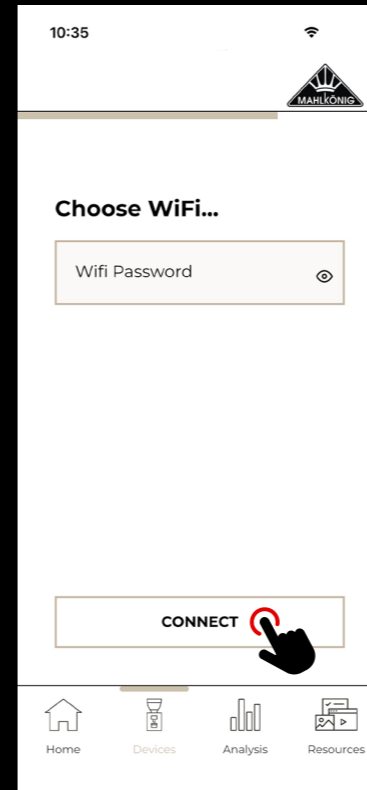
Enter the serial number that you can find on the back of the scale.



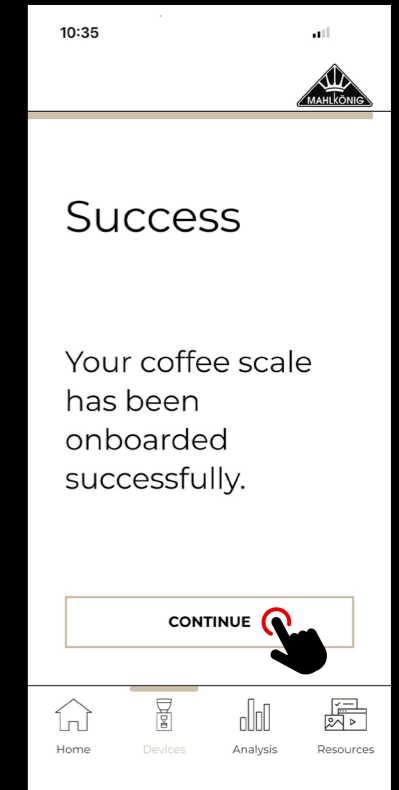
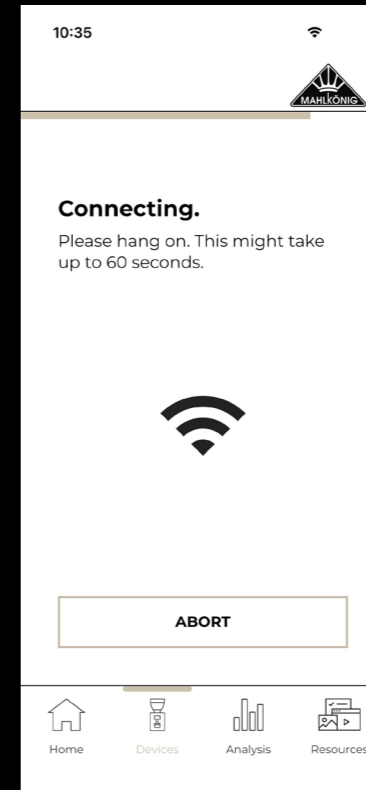
Allow for the app to join the scales network.



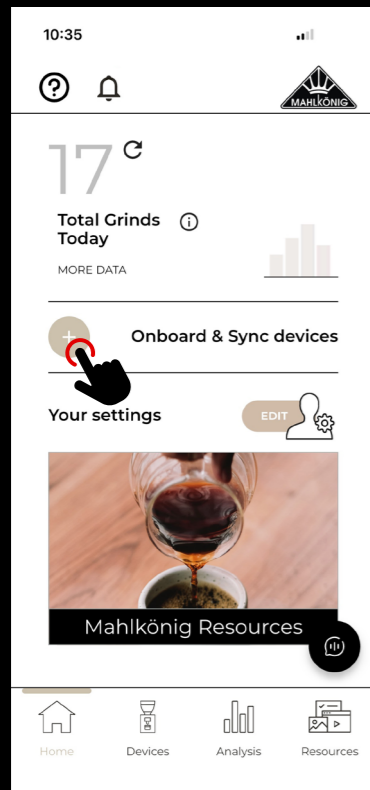
Choose your desired WiFi network that you want your Mahlkönig scale to connect to.



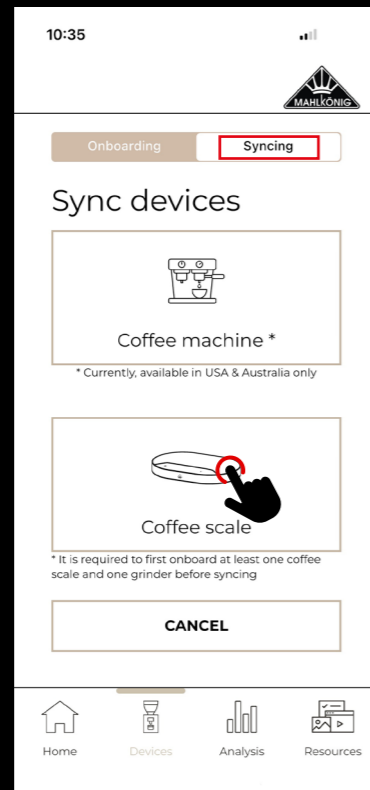
Enter the password and click on "CONNECT".



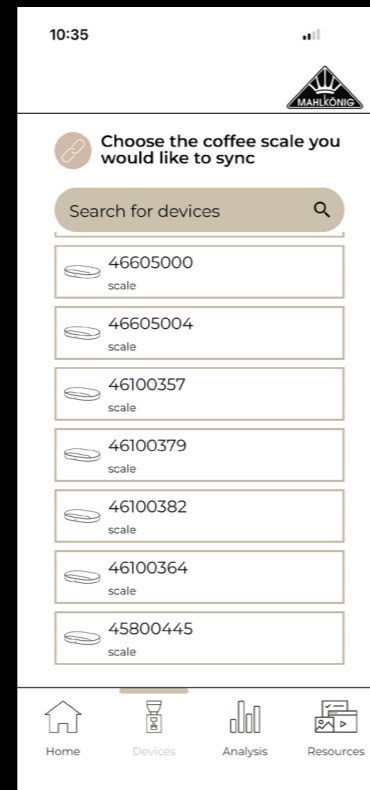
Syncing



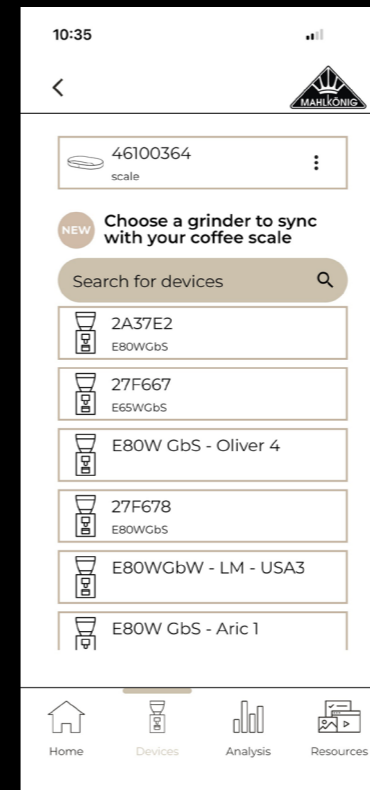
Select **"Onboard & Sync devices"** on the Home screen.



Select **"Syncing"** and choose **"Coffee scale"** on the Devices screen.

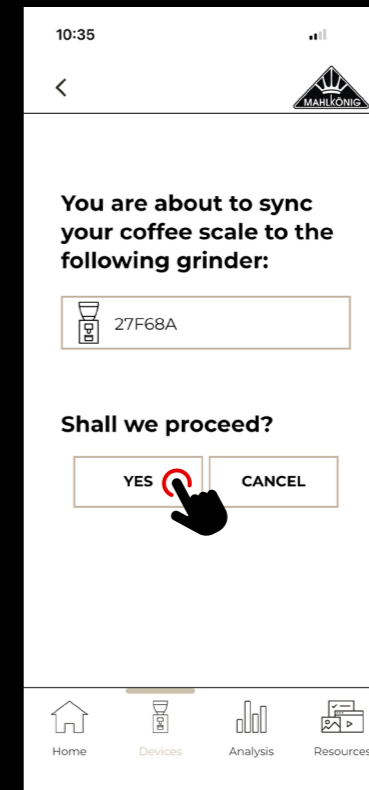


Choose the coffee scale you want to sync.

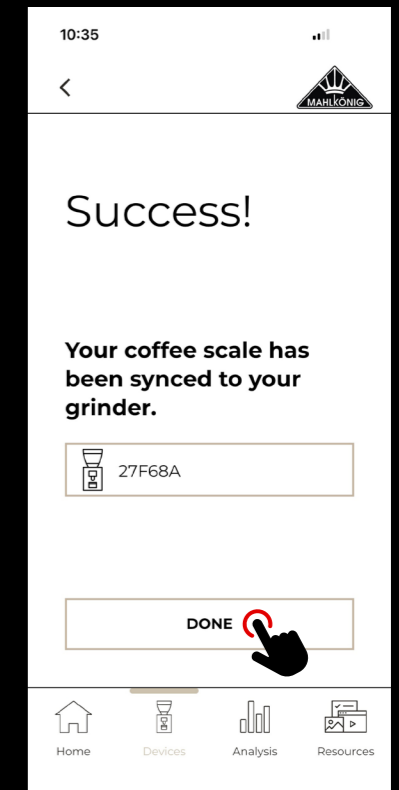


Choose the grinder you want to sync with this scale.

Note: If you haven't onboarded your Mahlkönig grinder, please do so and ensure it is updated to the latest software.

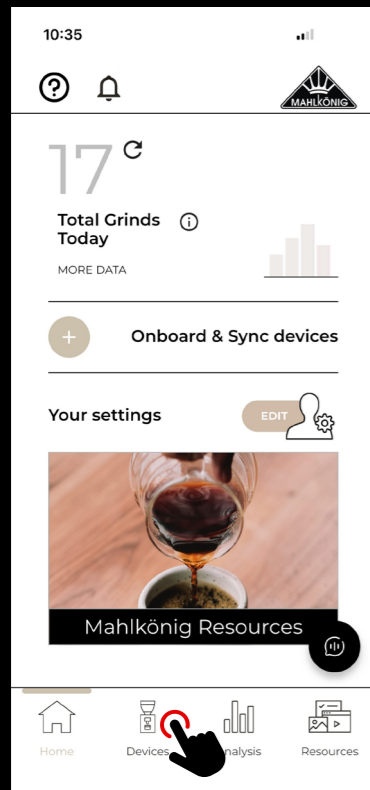


Tap on **"YES"** to sync your scale to your desired grinder.

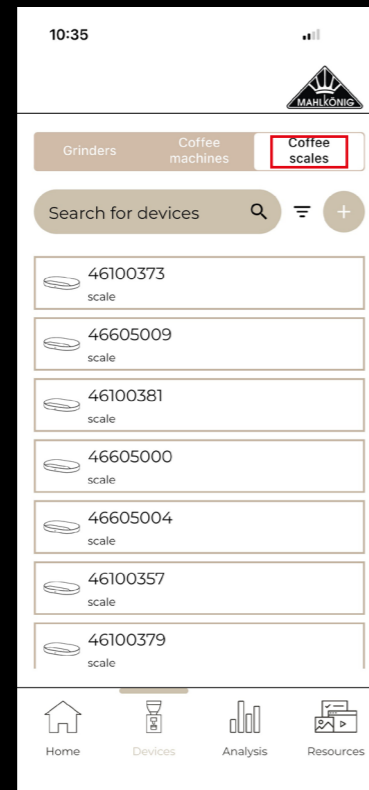


To be able to sync the devices:
 1) Go to **Connectivity** in the **GbS Grinder**.
 2) Under **Cloud Settings**, activate the **Cloud Connection**.
 3) Under **Machine to Machine**, enable the **Cloud device** via USB port or Cloud device connection.

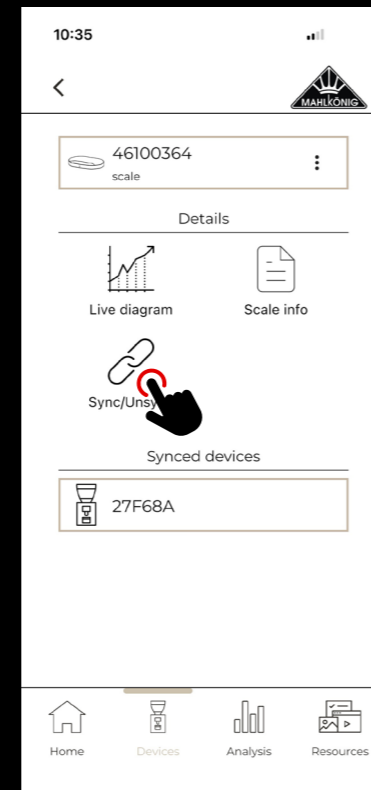
Unsyncing



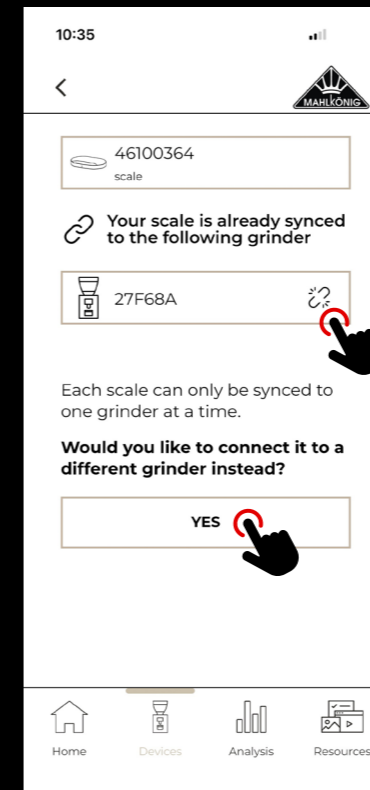
Select **"Devices"** on the home screen.



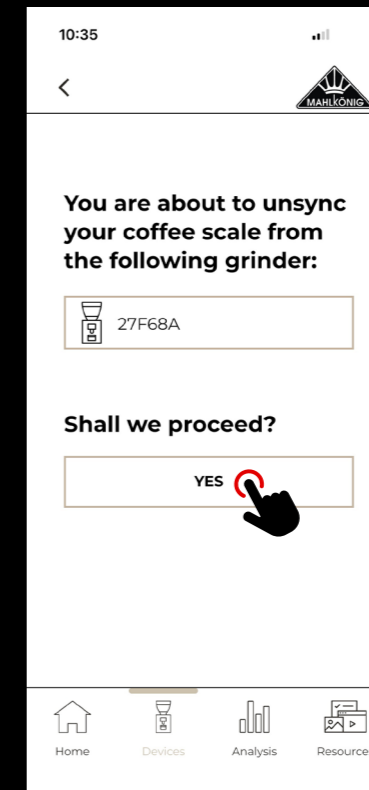
Select **"Coffee scales"** at the top, and search for your coffee scale.



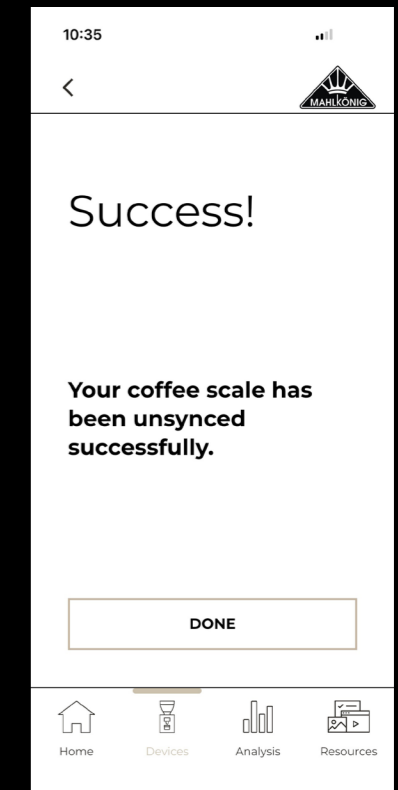
Tap on the **"Sync/Unsync"** icon.



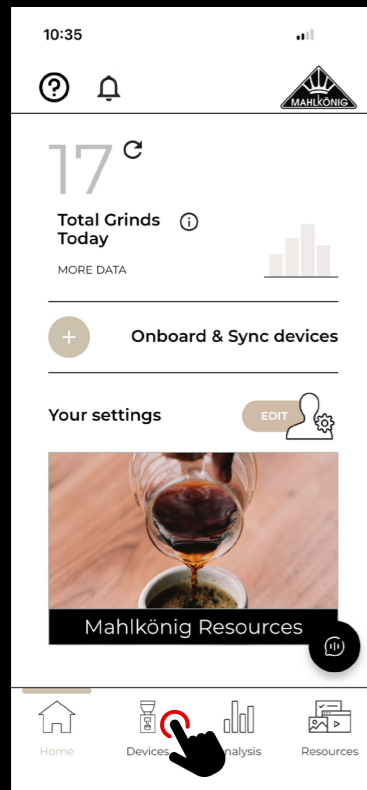
Tap on the chain icon or on **"YES"** below, depending if you wish to unsync it or if you want to unsync and sync with a different grinder.



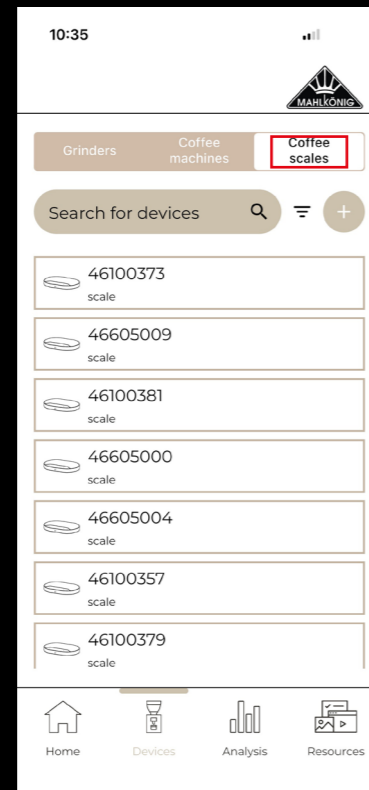
Tap on **"YES"** to proceed with the un-syncing to occur.



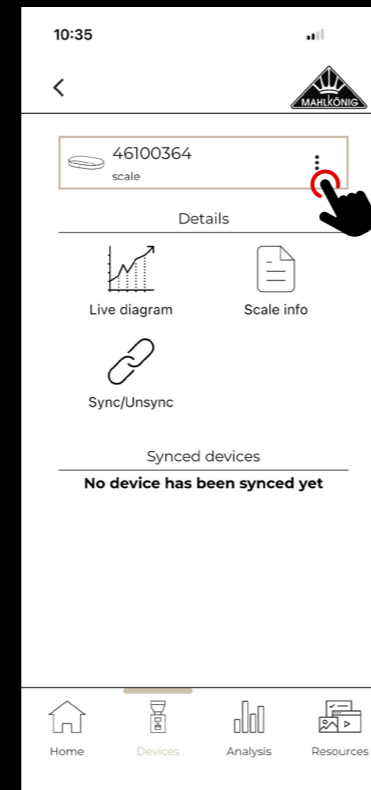
Off-Boarding



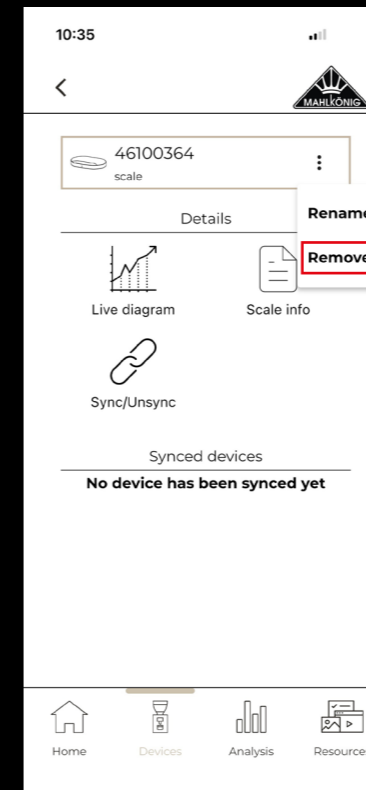
Select **"Devices"** on the home screen.



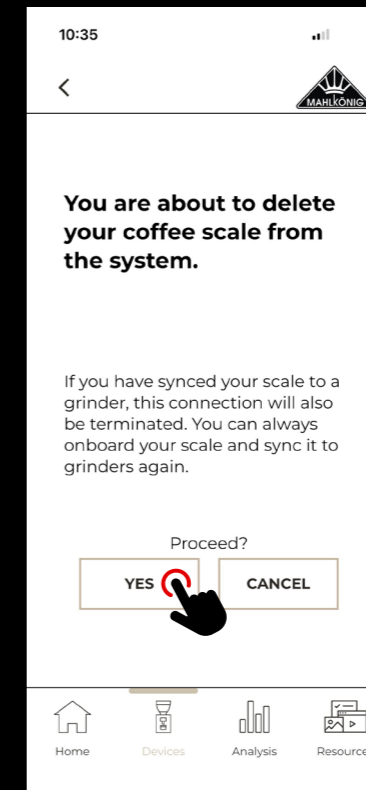
Select **"Coffee scales"** at the top, and search for your coffee scale you wish to off board.



Tap on the three dots next to the name of your coffee scale and select **"Remove"**.

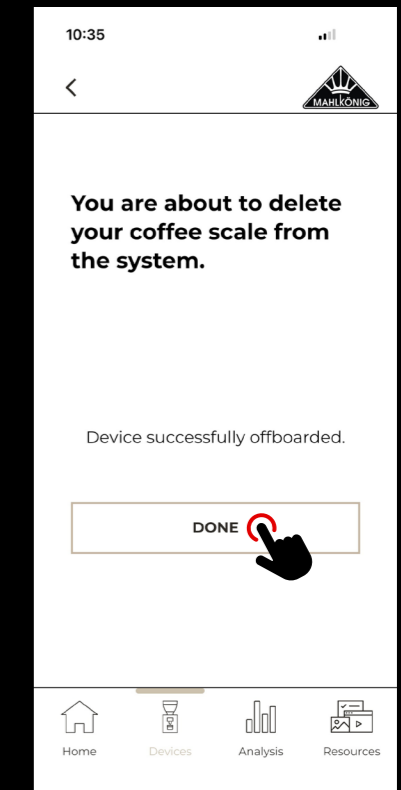


Tap on the three dots next to the name of your coffee scale and select **"Remove"**.



Confirm by clicking **"YES"** to off-board your scale from the system

Note: Removing the scale from the Mahlkönig Sync App does not disconnect it from the network. To fully disconnect the scale from the network, you must perform a "WiFi reset," available in the settings menu.



Using the Scale with GbS Grinders

Valid Brew Events

1. When a GbS grinder is synched to a coffee scale it will only consider the following two conditions as valid brew events:
 - a. When the time measured by the scale is **above 15 seconds** (min.).
 - b. When the time measured by the scale is **equal to the Target Brew Time** (set in the GbS recipe) + 15 seconds (max.).

This means that the grinder will not adjust if the total time measured by the scale is outside these boundaries.

Note: As a barista, before you sync the scale to the grinder, make sure to first dial in your grinder/brewer such that you are already close to your desired parameters.

2. During the grinding process, wait until the **screen turns green** before removing the portafilter. If you remove it too early, the screen will turn red, and the system won't be able to adjust the grind size for that specific event.





Lithium-Ion Battery Safety Guidelines

1. Charging Safety

Use the Recommended Charger: Always use the manufacturer-provided or approved charger. Incorrect voltage/current can damage the battery or cause a fire.

Avoid Overcharging: Do not leave the scale charging overnight or continuously. Most models have auto shut-off—unplug once fully charged.

Charge in a Safe Area: Place the scale on a non-flammable surface (e.g., ceramic or metal) while charging, away from flammable materials like paper towels or wooden surfaces.

2. Handling and Storage

Avoid Extreme Temperatures: Do not expose the scale or battery to direct sunlight, freezing temperatures, or moisture. Optimal storage temperature: 15°C to 25°C (59°F to 77°F).

Keep Dry: Never expose the battery or charging port to water or liquids (including coffee!).

Store Properly: If storing long-term, keep the battery partially charged (around 50%) and store in a cool, dry place.

3. Usage Precautions

Do Not Puncture or Crush: Avoid dropping or pressing on the scale. Internal battery damage may not be visible but can be dangerous.

Watch for Signs of Damage: Swelling, overheating, or strange smells are signs of battery failure. Discontinue use immediately and safely dispose of the battery.

Use in Intended Conditions: Only operate the scale within its specified operating temperature range.

5. Disposal and Replacement

Do Not Incinerate or Throw in Trash: Li-ion batteries can explode in fire or landfills. Recycle through proper e-waste or battery disposal facilities.

Replace with Compatible Batteries Only: If the battery is user-replaceable, ensure replacements match the manufacturer's specifications.

What Not to Do

1. Don't attempt to modify, open, or repair the battery.

2. Don't charge a damaged or swollen battery.

3. Don't use a USB port that delivers power irregularly
(e.g., damaged power bricks or unstable power strips).





www.mahlkoenig.com