

VOLTCRAFT®

© App Instruction Manual

SEM6000 Bluetooth®
Energy Consumption Meter

Item No. 1558906



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Symbols

The following instructional symbols are used in this instruction manual.



The symbol with an exclamation mark in a triangle indicates important instructions contained in this instruction manual that must be followed.


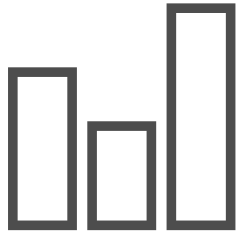

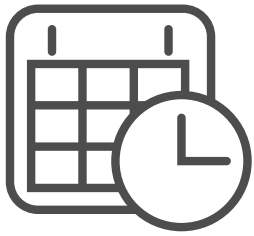


This symbol indicates that special advice and notes on operation are provided.

Trademarks




- All company names and product names are trademarks of their respective owners. All rights reserved.
- Bluetooth[®] is a registered trademark of Bluetooth SIG, Inc. worldwide.

Core functions

	Real-time metering of power consumption of connected load.
	Recording, retrieval and display of power consumption statistics: <ul style="list-style-type: none">■ kWh■ Cost
	Turn the smart device on or off via timer.
	Controlling on and off times by schedule rules.

Indicator lights on Smart device

Observe the indicator lights during set up and use of your smart device.

Colour		Indication
Looping		Connecting to mobile device
Greenish		Low power consumption
Yellow to orange		Medium power consumption
Redish		High power consumption
No colour		<ul style="list-style-type: none">■ Device turned off, or■ Night mode is activated

Installation

Apps are available for Android and iOS mobile devices from the respective app stores.

Download the app **Voltcraft SEM6000** onto your mobile device.

Make sure your mobile device satisfies the minimum requirements as outlined on the app page.

Deinstallation

If you de-install the app from your mobile device, all settings are lost and linked smart devices will no longer be associated with your mobile device.

Connect via Bluetooth®

Bluetooth® connection

- In order to control the smart device, enable Bluetooth® on your mobile device running the app.
- You can disable Bluetooth® when you no longer need to control or retrieve data from the smart device.
- Real-time data rely on an active Bluetooth® connection to your smart device.

Reconnecting

When you turn off Bluetooth® on your mobile device or head outside the transmission range the connection to the smart device is lost.

Do the following to reconnect:

1. Close the app.
2. If Bluetooth® is on, turn it off.
3. Turn Bluetooth® on.
4. Restart the app.
5. Your mobile device reconnects to the smart device. **Note:** this may take a few seconds.

One-to-many device setup

The app allows you to add multiple smart devices and control them all from within the app. Other users can follow the same steps and add the same devices you added.

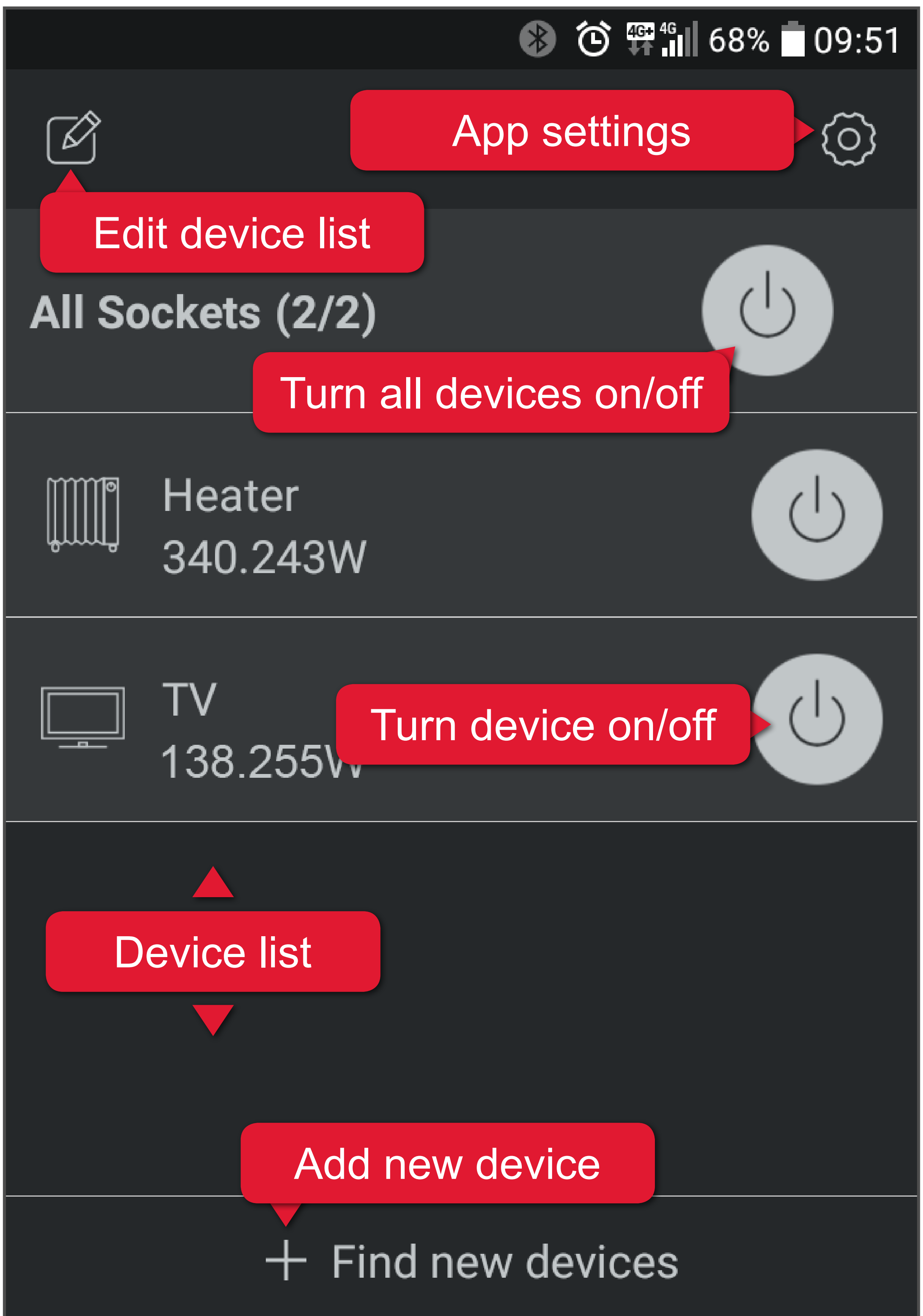
Restrictions





- A smart device can only be controlled by one user at any point in time.
- As soon as a connection between Smart device and mobile device is established, other users have no access to the device for as long as the connection exists.

Security

You are strongly advised to secure your smart devices. Refer to chapter [Device security](#) for details.

App landing page



- When you open the app for the first time, the Device list is blank.
- Touch a smart device from the Device list to access the core functions:    

App settings

Press  to open the app settings:

Language	Select app language
About	Check for available app software updates.
Manual	Download app operating instructions.

Adding a device



During set-up make sure to keep the mobile device running the app and the smart device within a distance of **1 m.**




1. Connect the smart device to the power supply and turn it on.
2. Activate Bluetooth[®] on your mobile device.
3. Open the app.
4. On the landing page, touch **+ Find new devices.** When you see the radar screen, the app scans for new available devices.
5. The new device is added to the device list.
6. Add more devices (max. 10) as desired.
 - If you wish to add a device that is protected by password, you will be asked for the password before you can connect to it. Refer to chapter [Device security](#) for more information.

Removing a device



Removing a device from the device list removes all its settings and records.

Option 1

1. Go to the landing page.
2. Touch  followed by  (device selection) to remove the device.
3. Confirm the confirmation dialogue to remove it.
4. Touch  again to lock the Device list.

Option 2 (Android only)

1. Go to the landing page.
2. Touch and hold the device you want to remove.
3. Select **Delete** to remove it.
4. Confirm the confirmation dialogue to remove it.

Option 3 (iOS only)

1. Go to the landing page.
2. Swipe the device you want to delete left.
3. Touch **Delete**.
4. Confirm the confirmation dialogue to remove it.


Device settings

Device status

- If there is no connection between smart device and mobile device, the smart device appears greyed out on the app landing page.
- Before you can adjust settings, the smart device must connect to your mobile device.

Settings

From the landing page you have access to the devices' settings. Choose either way to access an individual device's settings:

- Touch  followed by a touch on the device.
- (Android only) Touch and hold the device until you see a pop-up. Select **Setting**.

Icon Select an icon for the connected consumer.
Name Give your device a name.
Firmware version Check for firmware updates. See chapter Firmware updates for details.
Change your password See chapter Device security for details.

Night mode

Activate Night mode to turn off the indicator light. Disable the mode to turn the indicator light back on.

Over Power Protection

Enter a cut-off value. When the power consumption reaches the cut-off the smart device turns off.

When the power falls below the cut-off the smart device is turned back on.

Tariff

Ordinary Period:

Select currency and enter price.

Valley Period:

If your power supply company offers different rates during valley periods, activate Valley Period.

Enter price and time period.

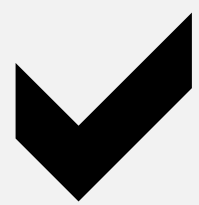
Random Timer

See chapter [Control – Timer](#) for details.

Reset

Partial or full reset of smart device. See chapter [Device reset](#) for details.

Device security



We strongly suggest you change the password, so that you remain in full control of your smart device.

Default password

The default password is 0000.

Why change the default password?

If you operate the smart device with its default password, a second unauthorized user can add the same smart device to their mobile device and control it.

Set a new password

Password requirements:

- combination of integer values
 - max. 4 digits
1. Open the smart device's settings.
 2. Touch **Change password**.
 3. Set a new password.
 4. Save your settings with **Save**.

Smart devices protected by password other than the default password are displayed with a lock in the Device list until you provide the password to access them.



Metering

Real-time wattage

The image shows a mobile application interface for monitoring a heater. At the top, the status bar displays Bluetooth, alarm, 4G+ signal, 68% battery, and the time 09:52. The app header includes a menu icon and a heater icon with the label "Heater". A red callout bubble points to the menu icon with the text "Back to home". The main display features a large circular gauge for "Wattage" with a needle pointing to 341.200 W. Below the gauge, two columns of data show "Current" at 1.612 A and "PowerFactor" at 0.984. A secondary gauge at the bottom of the main display shows a value of 0. Below this, a table provides additional metrics: Voltage (215 VAC), Frequency (50 Hz), Total Energy Used (0.718 kWh), and Total CO₂ Emission (0.382 kg). A large grey button labeled "ON" is positioned below the table, with a red callout bubble pointing to it that says "Turn on/off". The bottom navigation bar contains four icons: "Power" (a red gauge icon), "Energy" (a bar chart icon), "Timer" (a clock icon), and "Schedule" (a calendar icon).

Back to home

Heater

266
Wattage
341.200 W

Current 1.612_A | PowerFactor 0.984

0 | 4000

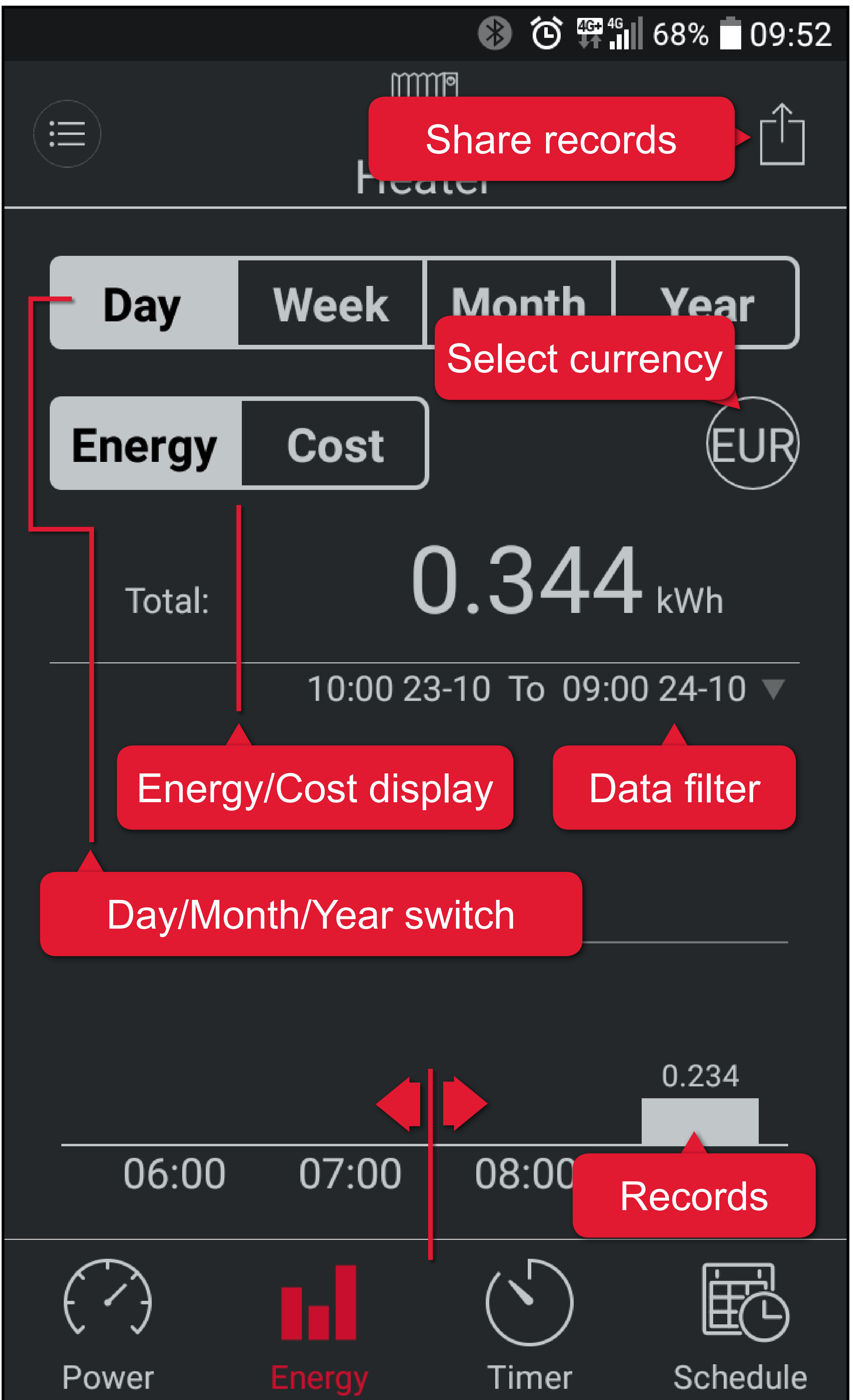
Voltage 215 _{VAC}	Frequency 50 _{Hz}
Total Energy Used 0.718 _{kWh}	Total CO ₂ Emission 0.382 _{kg}

ON

Turn on/off



Power Energy Timer Schedule

Energy consumption



Record backups

If you wish to export energy consumption records for backup or other purposes do the following:

1. Tap on a smart device in the Device list.
2. Navigate to the  tab.
3. Decide if you want to export the power consumption or cost history. Activate the corresponding tab.
4. Touch  and decide how to share or where to save the exported records. Records are exported in the CSV format.
Under iOS you can only share via email.



To open and view CSV files, use a spreadsheet editing (e.g. Microsoft Excel), or other suitable application.

Control – Safety



Remind yourself of the possible dangers the device you intend to connect can pose to your environment.



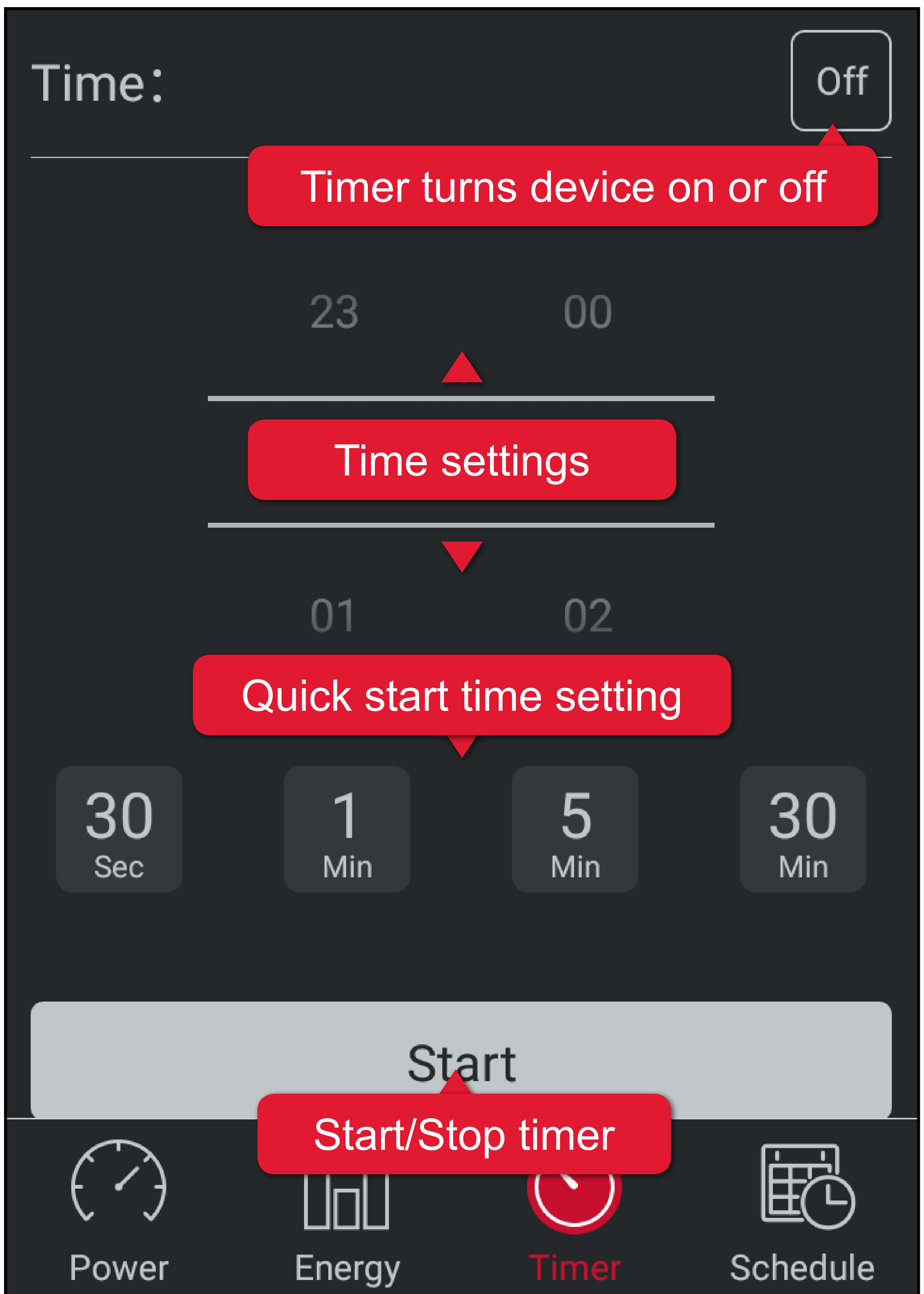
Read the instruction manual that came with the product you are going to connect to the smart device to find out if it is suitable to be operated without attendance.

If it is not, then do not use it in conjunction with timer and schedules, unless supervised.

- A heater can cause fire if left unattended!
- A kettle that contains no water may cause fire!
- A coffee maker may overheat if not turned off on time and cause fire!

Control – Timer

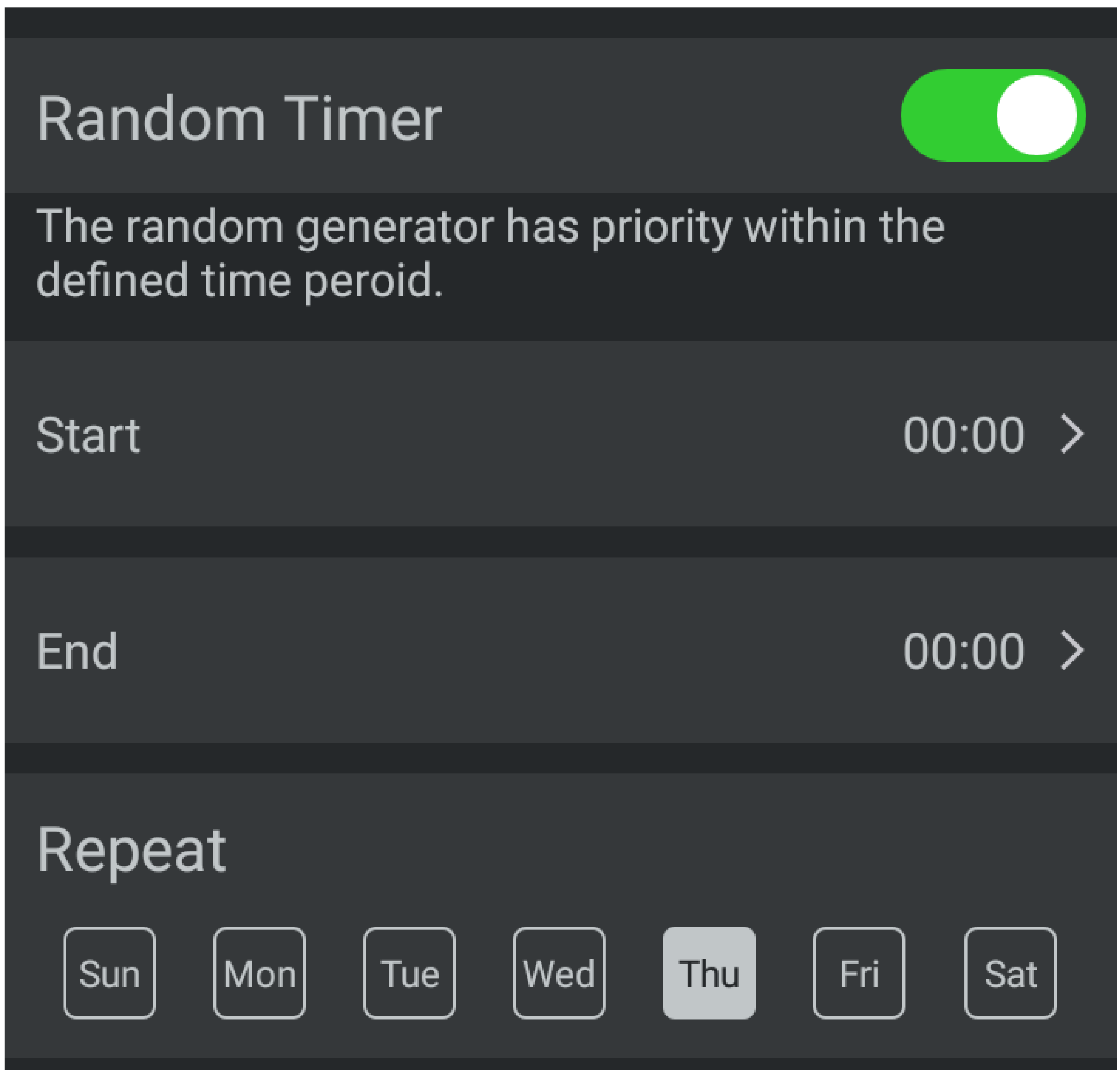
User-defined timer



Random timer

After activating the random timer, the smart device turns on and off at random times.

This function takes precedence over the smart device's current status.



Set the random timer:

1. Go to the device's settings.
 2. Activate **Random Timer**.
 3. Enter start and end period.
 4. Determine the repeat pattern.
 5. Save settings with **Save**.
- To halt the random timer deactivate it.

Control – Schedule

Control panel

The screenshot displays the 'Control panel' for a heater. At the top, there is a status bar with icons for Bluetooth, alarm, 4G+ signal, and a battery level of 67% at 09:52. Below the status bar is a header area with a heater icon and a red button labeled 'Add new schedule rule' with a plus sign. The main content area lists five schedule rules, each with a number, a status (On/Off), a time, and a toggle switch. Rule 1 is 'Off' at 05:00 on 28/10/2017 and is disabled. Rule 2 is 'Off' at 06:00 on Mon Tue Wed Thu Fri and is enabled. Rule 3 is 'Off' at 09:00 on Mon Tue Wed Thu Fri Sat Sun and is enabled. Rule 4 is 'On' at 22:00 on Mon Tue Wed Thu Fri Sat Sun and is enabled. Rule 5 is 'On' at 23:45 on Mon Tue Wed Thu Fri Sat Sun and is enabled. A bottom navigation bar contains four icons: a gauge for 'Power', a bar chart for 'Energy', a clock for 'Timer', and a calendar for 'Schedule'.

Heater

1 Off 05:00 28/10/2017

2 Off 06:00 Mon Tue Wed Thu Fri

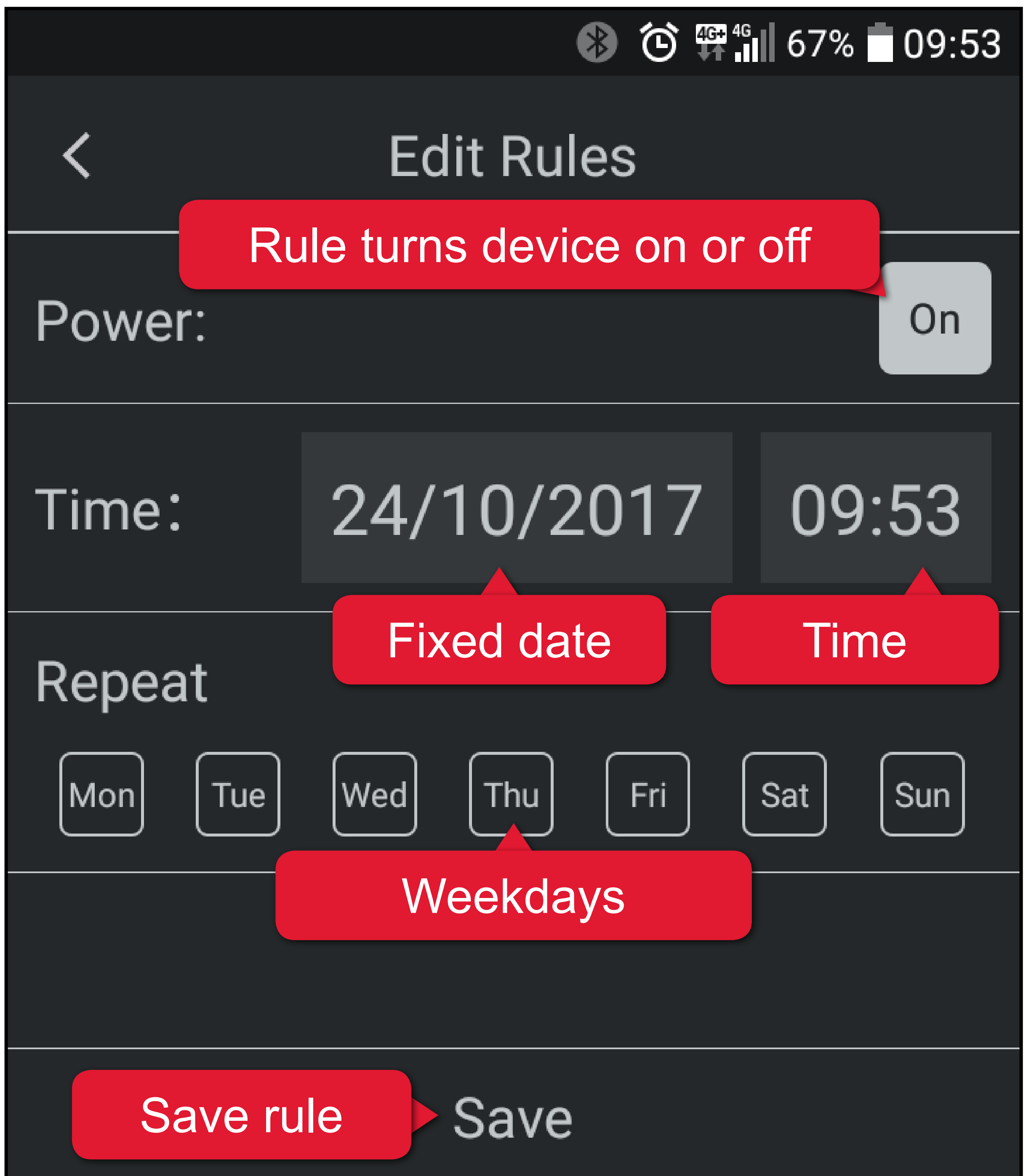
3 Off 09:00 Mon Tue Wed Thu Fri Sat Sun

4 On 22:00 Mon Tue Wed Thu Fri Sat Sun

5 On 23:45 Mon Tue Wed Thu Fri Sat Sun

Power Energy Timer Schedule

Schedule rules



1. Press **+** to start creating a new rule.
2. Decide if the new rule shall turn the smart device on or off.
3. Set on which weekdays the rule is active.
 - If you want the smart device to be controlled on a specific date, deselect all weekdays and set a fixed date instead.
4. Set the time at which the rule takes effect.
5. Save your rule with **Save**.

6. If needed, add more rules (max. 12).
7. Return to the Control panel and enable and disable rules as required.

Schedule – Example 1

A schedule is required that turns a connected light on at 18:00 and off at 09:00 the following morning. Schedule shall be active every day.

We need 2 schedules:

Schedule 1	
Repeat	Mon, Tue, Wed, Thu, Fri, Sat, Sun
Time	18:00
On/Off	Set to On
Schedule 2	
Repeat	Mon, Tue, Wed, Thu, Fri, Sat, Sun
Time	09:00
On/Off	Set to Off

Schedule – Example 2

A schedule is required that turns a connected and suitable coffee maker on at 06:00 every morning, excluding the weekend.

We need 1 schedule:

Schedule 1	
Repeat	Mon, Tue, Wed, Thu, Fri
Time	06:00
On/Off	Set to On



For the above example, you must ensure that the coffee maker is not left unattended and is turned off manually if required.

Firmware updates

The firmware of your smart device is updated via the app. **Update** indicates an available firmware update in the device's settings under **Firmware Version**.

Updating firmware

1. Connect to the smart device you want to update.
2. Open the device's settings.
3. Touch the **Update** button.
4. The firmware of the smart device updates.
5. Once you see **Current**, the update procedure is complete.

Device reset



Deleted settings cannot be restored.
Think before you reset!

There are two reset options:

- Clear power consumption history
 - Reset all settings
1. Open the device's settings.
 2. Touch **Reset**.
 3. Select the desired reset option. Touch outside the pop-up window to cancel the procedure, else confirm to reset.

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