

PowerTag E

Device user guide

Information about features and functionality of the device.
10/2022

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Table of Contents

Safety information	4
PowerTag Energy	5
For your safety	5
About the device.....	6
Installing the device	6
Supported mounting positions.....	6
Pairing the device	7
Pairing the main device	7
Pairing additional devices	10
Pairing the main device with On Grid solar system.....	12
Configuring the device	14
Identifying the device	14
Renaming the device	15
Configuring the tariff plan - flat rate.....	16
Configuring the tariff plan - peak rate	17
Advance settings	18
Removing the device from Wiser system	19
Using the device.....	20
Checking device consumption	20
Automation.....	23
Triggering notifications and alarms	27
LED indications	29
Troubleshooting	30
Technical data	31
Compliance.....	33
Compliance information for Green Premium products.....	33
Trademarks.....	33

Safety information

Important information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that accompany this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

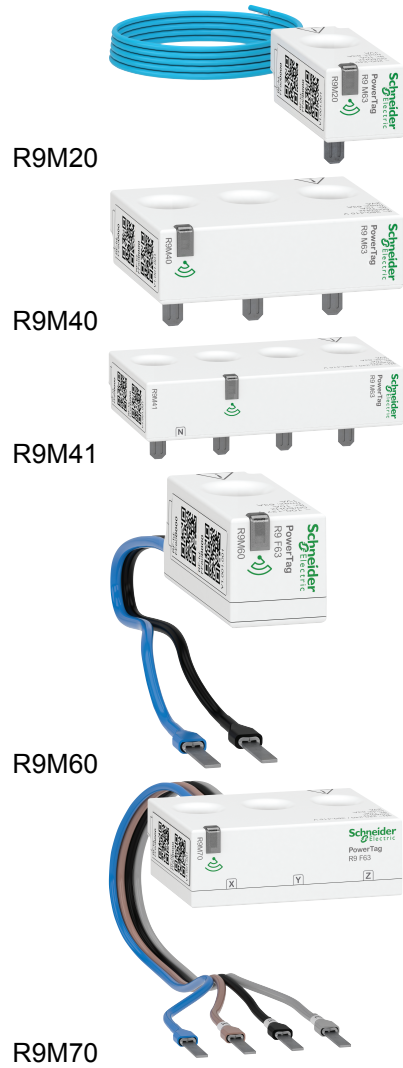
CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

PowerTag Energy



For your safety

⚠️ ⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Safe electrical installation must be carried out only by qualified electrical personnel. Qualified electrical personnel must prove profound knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electrical cables
- Safety standards, local wiring rules, and regulations

Failure to follow these instructions will result in death or serious injury.

About the device

PowerTag E (hereinafter referred to as PowerTag) is a compact, robust, and easy-to-install Class 1 wireless communication energy sensor. It is used together with the Wiser Hub to collect information from every equipped circuit to identify which load is consuming most energy. It is designed specifically to manage energy consumption and power availability applications for new or existing residential installations. It monitors and measures energy and power in real-time, and also provides complete visibility of power transfer between power source and loads.

Features of PowerTag :

- Easily mounted with top or bottom position directly on circuit breaker.
- Measures energy consumption and production (power).
- Sends real-time notifications and alarms in Wiser Home app in case of any electrical system anomalies.

Benefits of PowerTag:

- Smallest footprint and fastest installation.
- Energy Class 1: Accurate measurement.
- Compact and cost effective

Installing the device

It is recommended to install the PowerTag within 3 metres of the Wiser Hub for best results. This provides a good network strength and helps to prevent online/offline issues, which might result in corrupting data. Refer to the installation instruction supplied with this product.

Instruction manual links:

- [PowerTag Resi9 M63](#)
- [PowerTag Resi9 F63](#)

Supported mounting positions

Mounting position	Smart Tag	Model number
Top or Bottom	PowerTag Energy R9 M63 1PW	R9M20
Top or Bottom	PowerTag Energy R9 M63 3P	R9M40
Top	PowerTag Energy R9 M63 3PN	R9M41
Top or Bottom	PowerTag Energy R9 F63 1PN	R9M60
Top or Bottom	PowerTag Energy R9 F63 3PN	R9M70

Pairing the device

Pair your PowerTag with the **Wiser Hub** to access and control the PowerTag using the Wiser Home app.

- We recommend to configure one of your PowerTag as **Grid** on the main incomer of the house. This helps to record the overall house consumption.

NOTE:

- **Grid:** Main Supply (referred as **Grid** in the app) source of the house.
 - **Load:** Power consumed from the Grid by electrical devices such as light, water heater and fridge.
- If you have more than one additional PowerTag installed for loads, it is recommended to pair the main PowerTag first and then pair the additional PowerTag. Refer to [Pairing main device, page 7](#) and [Pairing additional devices, page 10](#).

NOTE:

- Main PowerTag refers to the PowerTag which is connected to the Grid.
 - Additional PowerTag refer to the PowerTag that are connected to the loads.
- If you have installed the PowerTag with an existing On Grid solar system. Refer to [Pairing the main device with On Grid solar system, page 12](#).

NOTE: On Grid solar system refers to the system that is connected to the Grid (main supply) of the house. If the system produces more energy than is used, the excess power is fed into the Grid.

- If you have installed the PowerTag with an existing Off Grid solar system. Refer to [Pairing main device, page 7](#).



NOTE: Off Grid solar system refers to the system that works independently and is not connected to the Grid but have batteries which can store solar power generated by the system.

IMPORTANT: Make sure that the PowerTag has been installed by a qualified professional.

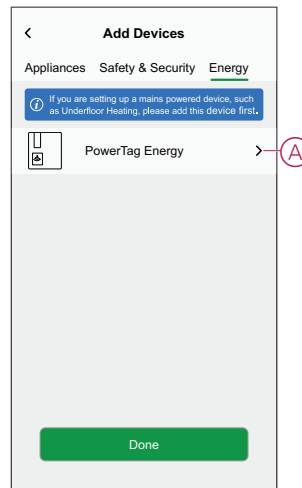
NOTE: The installer will provide the information to the user on which circuit breaker the main and additional PowerTag are installed.

Pairing the main device

To pair the main device:

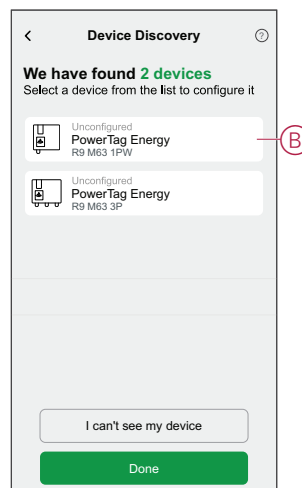
1. On the **Home** page, tap .
2. Tap **Devices** >  > **Energy**.

3. Select **PowerTag Energy** (A).

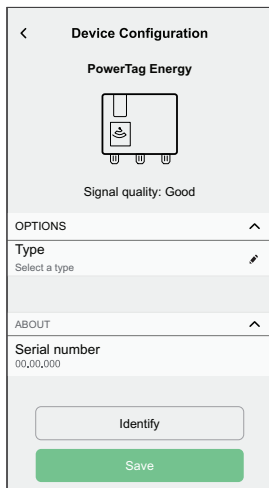


4. The **Device Discovery** page will search for a minute to display the available PowerTag.

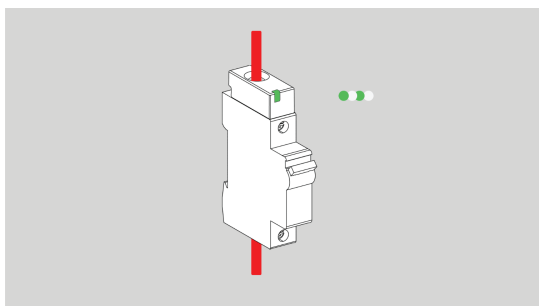
5. If there is more than one PowerTag available, select one among them (B).




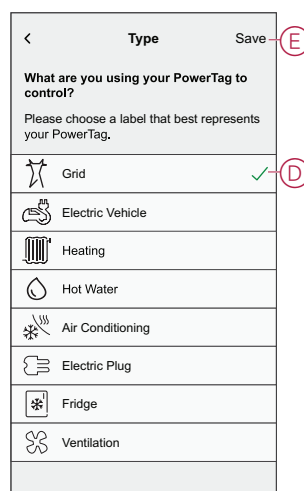
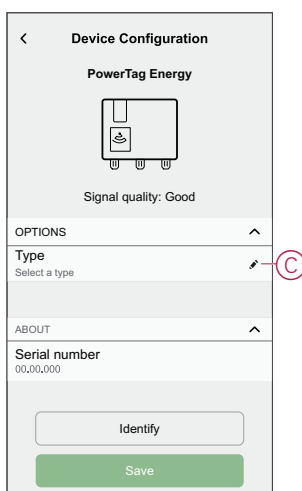
- On the **Device Configuration** page, tap **Identify** to recognize the main PowerTag.



A notification window is prompted and the status LED flashes fast in green on the PowerTag.



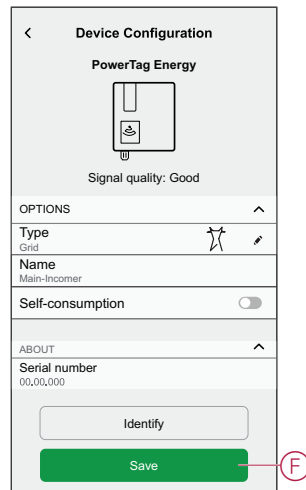
- Tap **OK** on the notification window when you have finished identifying the PowerTag.
- Tap  (C) to assign a label to the main PowerTag. The label list appears on the **Type** page.
- Select a label type (D) and tap **Save** (E).



NOTE: It is recommended to select the **Grid** type to represent the main PowerTag.

Once the **Grid** type is selected, by default the **Name** is assigned as **Main Incomer**.

10. Tap **Save** (F).



Pairing additional devices



To pair additional PowerTag, you must assign a label to them. It helps to easily identify the additional PowerTag installed for different loads and track the power consumed by them individually.

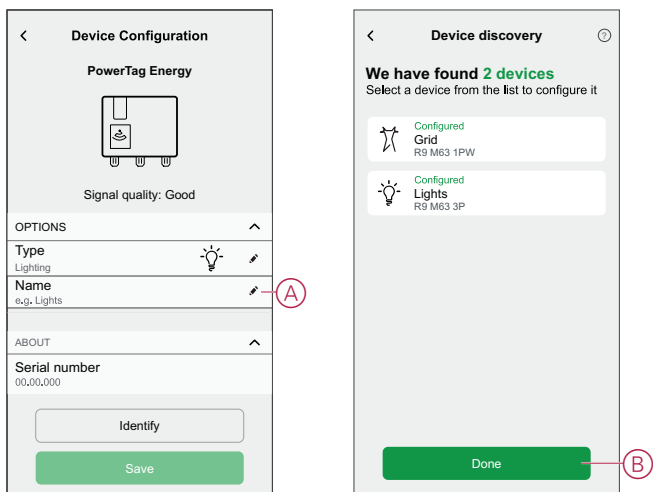
Follow any one of the procedures to label the additional PowerTag:

- **Selecting a label type from the available list:** You can select a label type from the available list.
- **Customizing label type:** If the available label list is not suitable for your load, you can customize the label type of your choice.



NOTE: Maximum **20** PowerTag can be paired.

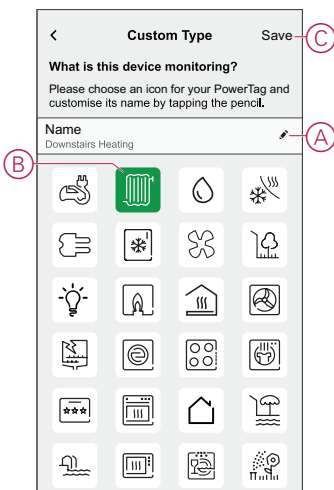
To select a label type from the available list:

1. On the **Device Discovery** page, tap the PowerTag.
2. On the **Device Configuration** page, tap **Identify** to recognize the additional PowerTag.
A notification window is prompted and the status LED flashes fast in amber on the PowerTag.
3. Tap **OK** on the notification window when you have finished identifying the PowerTag.
4. Tap , the label list appears on the **Type** page.
5. Choose a label that best represents your PowerTag and tap **Save**.
6. Tap  (A), enter a name and tap **Save**.
7. Tap **Done** (B).



Customizing label type

1. On the **Device Discovery** page, tap the PowerTag.
2. On the **Device Configuration** page, tap **Identify** to recognize the PowerTag.
A notification window is prompted and the status LED flashes fast in amber on the PowerTag.
3. Tap **OK** on the notification window when you have finished identifying the PowerTag.
4. Tap , the label list appears on the **Type** page.
5. Select **Custom**.
6. On the **Custom Type** page, tap  (A) and enter a name.
7. Choose an icon of your choice (B) and tap **Save** (C).



8. In the **Device Configuration** page, tap **Save** and then tap **Done**.

On successful pairing,




- The LED status flashes slow in green for 5 seconds on the PowerTag.
- The paired PowerTag will appear on app's home page.

Pairing the main device with On Grid solar system

If you have installed the PowerTag with an existing On Grid solar system, the power flow would be in any of the following directions:

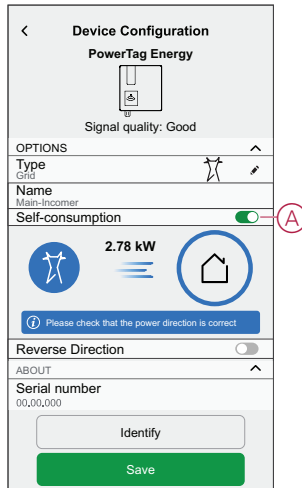
- Grid to Home: Import (Home consuming power from Grid)
- Home to Grid: Export (Excess power of Solar production fed to Grid)

It is necessary to configure the correct power direction else the PowerTag may measure the power direction incorrectly- Grid to Home as export and Home to grid as import.

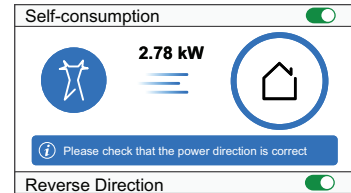
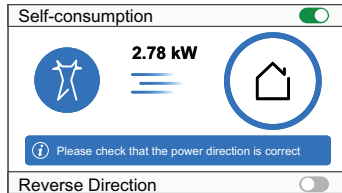
1. On the **Home** page, tap .
2. Tap **Devices** >  > **Energy**.
3. Select **PowerTag Energy**.
4. The **Device Discovery** page will search for a minute to display the available PowerTags.
5. If there is more than one device available, select one among them.
6. On the **Device Configuration** page, tap **Identify** to recognize the main PowerTag.
A notification window is prompted and the status LED flashes fast in amber on the PowerTag.
7. Tap **OK** on the notification window when you have finished identifying the PowerTag.
8. Tap  to assign a label to the PowerTag.
The label list appears on the **Type** page.
9. Select a label type (Grid) and tap **Save**.
NOTE: It is recommended to select the **Grid** type to represent the main PowerTag.
10. Switch off the solar circuit breaker.

- 11. Enable the **Self Consumption** toggle switch (A) to view the power direction.

IMPORTANT: Do not enable the **Self Consumption** toggle switch (A) if your solar system feed only the Grid.



- 12. If the power direction is from **Home to Grid**. Enable the **Reverse Direction** toggle switch.



IMPORTANT: Enabling **Reverse Direction** ensures the power direction is correct.


- 13. Tap **Save**.
- 14. Switch on the solar circuit breaker.

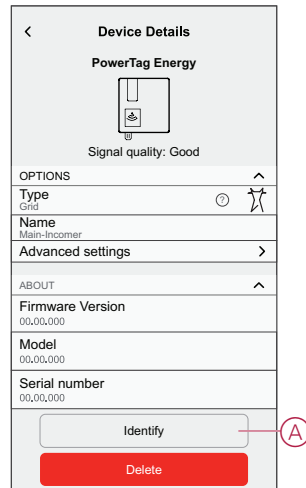
NOTE: If PowerTag is installed before installing an On Grid solar system, refer to Advance settings, page 18.

Configuring the device

Identifying the device

Using the Wiser Home app, you can identify the device.

1. On the **Home** page, tap .
2. Tap **Devices** and select the required PowerTag from the list and then tap **Identify (A)**.



A notification window is prompted and the status LED flashes green for 30 seconds on the PowerTag.




3. Tap **OK** on the notification window when you have finished identifying the PowerTag.

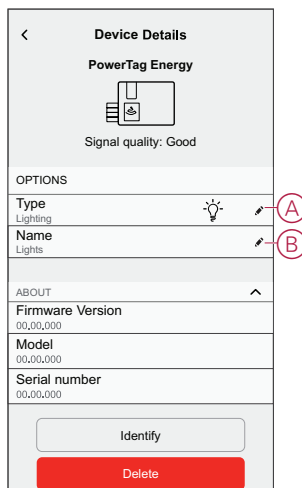
Renaming the device

Using the Wiser Home app, you can rename your PowerTag for easy identification.

NOTE: You can rename only for additional PowerTag installed for loads.

To rename the device:




1. On the **Home** page, tap .
2. Tap **Devices > Energy** and select a PowerTag from the list.
3. Tap  (A) and choose a label type of your choice and tap **Save**.
4. Tap  (B), enter a new name.

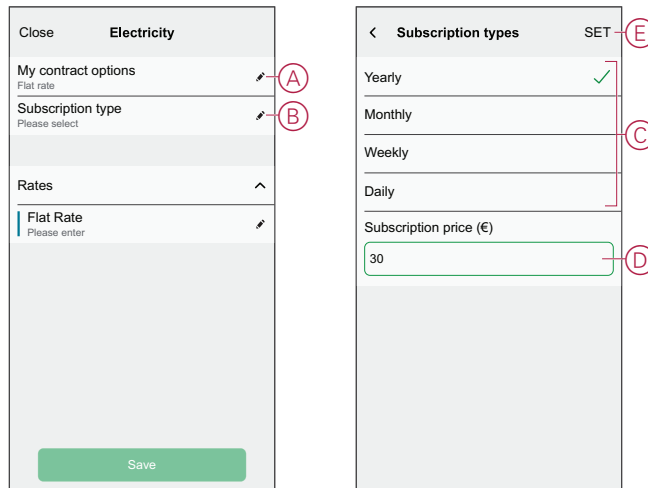



The settings will be saved automatically.

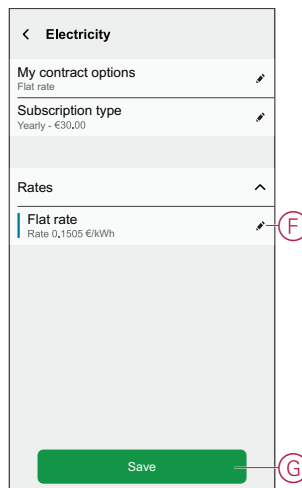
Configuring the tariff plan - flat rate

Flat rate is defined as the fixed rate for the entire time period of electricity service. To set flat rate:

1. On the **Home** page, tap .
2. Tap **Tariff > Electricity**
3. Tap  (A) and select **Flat**.
4. Tap  (B) and select a subscription type (C) (refers to recurrent fee).
5. Enter a subscription value in the **Subscription price (€)** (D) field and tap **SET** (E).







6. Tap  (F), enter a flat rate of consumption in the **Rate - €/kWh** field and tap **Save**.
7. Tap **Save** (G).

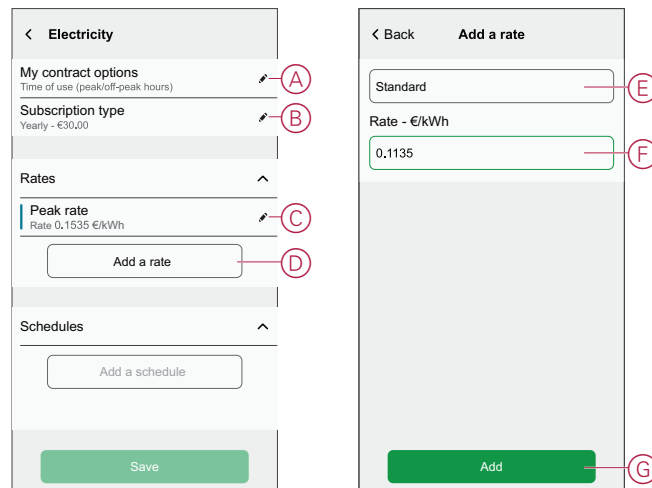


Configuring the tariff plan - peak rate

Peak rate is defined as a rate set to a specific period of time at which electrical consumption is at its highest. It is the amount you pay for each unit of electricity consumed for the time period set.

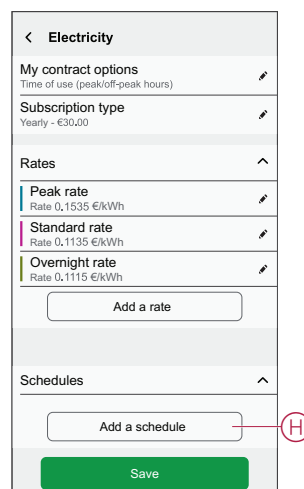
To set peak rate:

1. On the **Home** page, tap .
2. Tap **Tariff > Electricity**
3. Tap  (A) and select **Time of use (peak /off-peak hours)**.
4. Tap  (B) and select a subscription type (refers to recurrent fee).
5. Enter a subscription value in the **Subscription price (€)** field and tap **SET**.
6. Tap  (C), enter peak rate of consumption in the **Rate - €/kWh** (G) field and tap **Add**.
7. Tap **Add a rate** (D).
8. Enter the name of the rate in the text field (E).
9. Enter a target value in the **Rate - €/kWh** field (F) and tap **Add** (G).





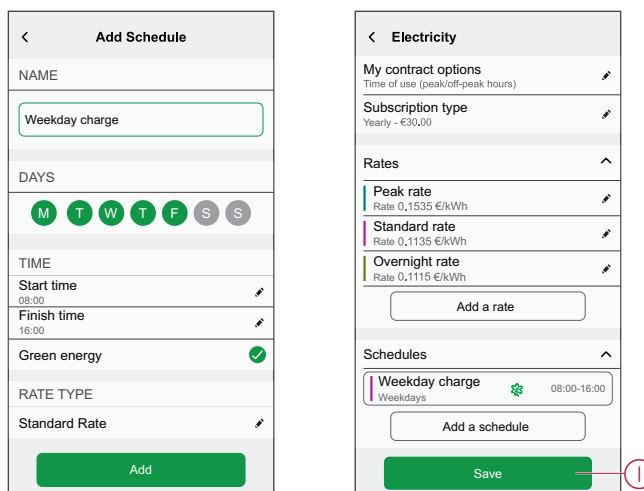
NOTE: Maximum 5 additional rates can be added.

10. Tap **Add a Schedule** (H) to set the time frame.



11. Enter a schedule name in the **NAME** field. Example, Weekend tariff.
12. Select the number of days in **DAYS** field.

13. Tap  to set **Start time** and **Finish time**.
14. Tap the icon to activate **Green energy** if your energy provider delivers green energy in that timeframe.
15. Tap  and select a **RATE TYPE**.
16. Tap **Add** and then tap **Save (I)**.




TIP: You can create multiple schedules by tapping **Add a schedule**.

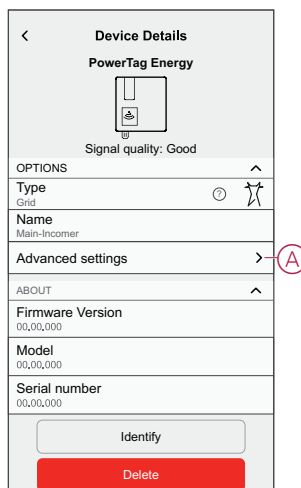
NOTE: Avoid assigning the same date and time to more than one schedule to avoid conflicts.

Advance settings

Advance settings is applicable only for **Grid** to re-configure the power direction in any one of the following scenarios:

- Installed a new On Grid solar system.
- Removed the On Grid solar system.
- If power direction is incorrect with the existing On Grid solar system.

1. On the **Home** page, tap .
2. Tap **Devices > Energy > Grid**
3. Tap **Advance settings (A)**.

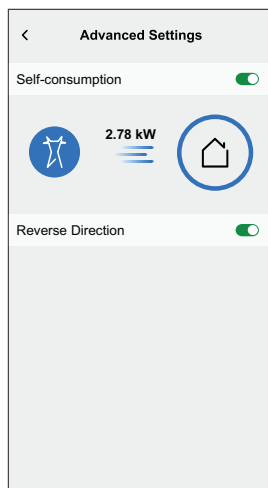


4. Tap **OK** when the notification window is prompted for confirmation.

5. Follow any one of these steps based on the requirement:

- Enable the **Self-consumption** toggle switch, if you have installed a new On Grid solar system. Refer to *Pairing the device with an On Grid solar system*, page 12.
- Disable the **Self Consumption** toggle switch, if you have removed the On Grid solar system or if your solar system feed only the Grid.
- Enable or disable the **Reverse Direction** toggle switch, if the power direction is incorrect with the existing On Grid solar system. Refer to *Pairing the device with an On Grid solar system*, page 12.

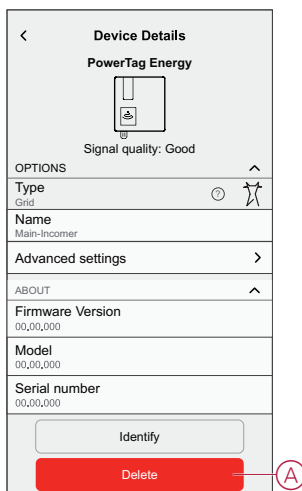
TIP: During night time, the power direction must be from Grid to Home, if the power direction is incorrect enable or disable the **Reverse Direction** toggle switch accordingly.



Removing the device from Wiser system

Using the Wiser app, you can remove the PowerTag from the wiser system.

1. On the **Home** page, tap .
2. Tap **Devices > Energy** and select a PowerTag from the list.
3. Tap **Delete (A)**.



4. Tap **Remove from System**.
All the historical data will be deleted.

Using the device

Checking device consumption

Using the Wisier Home app, you can monitor the live, history of individual PowerTag as well as statistical analysis of energy consumption of all the PowerTag.

- **Live:** Provides live data of the grid consumption and live status of where the energy is coming from:
 - Grid to Home: Import (Home consuming power from Grid)
 - Home to Grid: Export (Excess power of Solar production fed to Grid)
- **History:** Provides history of power consumed by loads. If there is an existing On Grid solar system, the app provides history of imported and exported power and energy.
- **Insights:** Provides information on energy savings and annual bill for the tariff set.

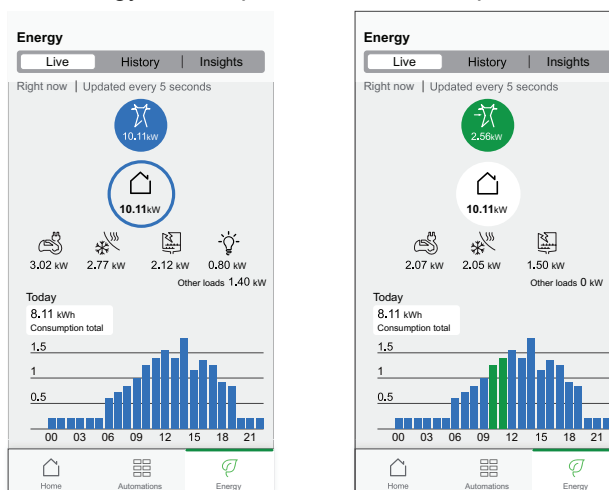
Live

Using Wisier Home app, you can view the live data of power flow in your house (Grid import and export).

To view live data:



1. On **Home** page, tap **Energy**.
2. Tap **Live**.
 - **Grid import:** The grid consumption with loads is represented in blue.
 - **Grid import and export (Applicable for Grid with On Grid solar system):** The grid consumption with loads is represented in blue and the excess energy of solar production sold is represented in green.



History

History of Grid import:



1. On **Home** page, tap **Energy > History**.

2. On the **History** page, select a required time frame (A):

- Hours
- Days
- Months
- Years

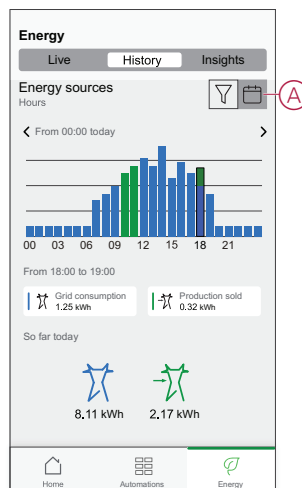


History of Grid import and export:

IMPORTANT: Applicable only for Grid with an existing On Grid solar system.


1. On the **History** page, select a required time frame (A):

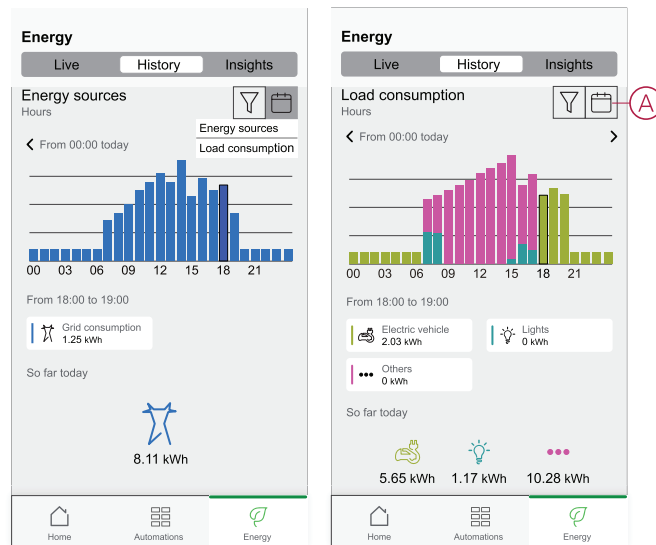
NOTE: The Grid import is shown in blue and the excess energy of solar production sold is shown in green.



History of load consumption

IMPORTANT: You can view the power consumed by individual loads only if you have installed additional PowerTag for them.

1. On the **History** page, tap  and select **Load consumption**.
2. Tap (A) and select a required time frame.

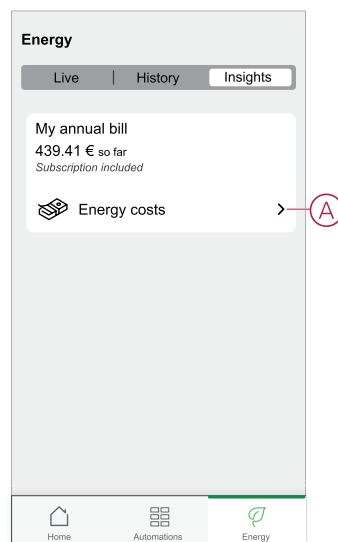


Insights

The Insights provides information on the annual bill for the tariff set. It helps to keep track of your energy.

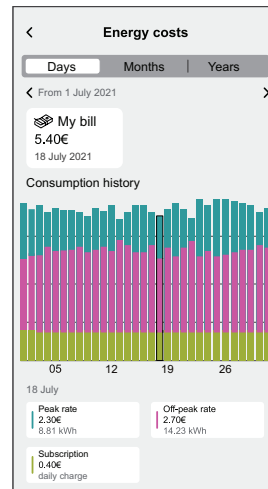
To view insights:

1. On **Home** page, tap  > **Insights** > **Energy costs** (A).



2. Select a time period to view the cost consumption.

- Days
- Months
- Years






Automation

An automation allows you to group multiple actions that are usually done together, triggered automatically or at scheduled times. Using the Wisier Home app, you can create automations based on your needs.

Creating an automation

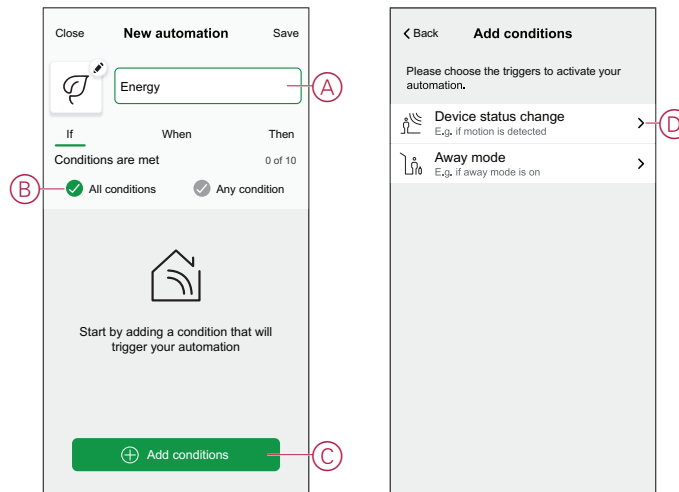
The following is an example of creating an automation when Grid is importing more than 0.5 kW, then send a notification.

1. On the **Home** page, tap the .
2. Tap **Automation** >  to create an automation.
3. Tap  and choose an icon that best represents your automation.
4. Enter a name of the automation (A) and select any of the following conditions to meet (B).
 - **All conditions:** All conditions must be met to trigger an automation
 - **Any condition:** Any one of the condition must be met to trigger an automation.

5. Tap **Add conditions** (C) and select any of the following (D):

- **Device status change** (Select the device)
- **Away Mode** (Enable or Disable)

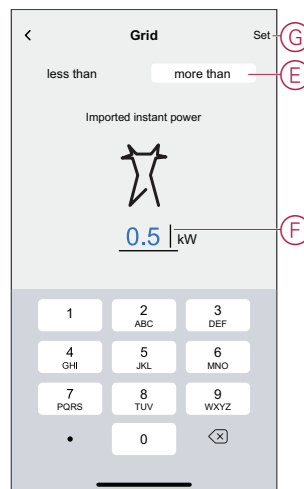
NOTE: Maximum 10 conditions can be added.




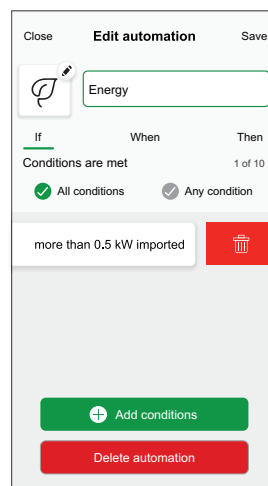
6. Select a device that will set the condition. In this example, select **Grid**.

7. Tap **more than** (E) and enter a power value in field (F).

8. Tap **Set** (G).



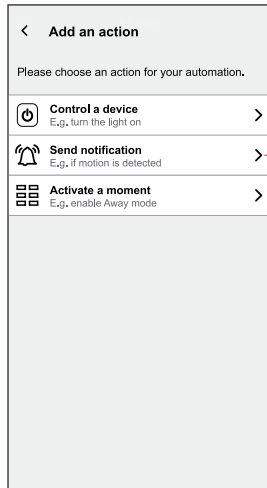
NOTE: To remove an added condition, swipe left and tap .



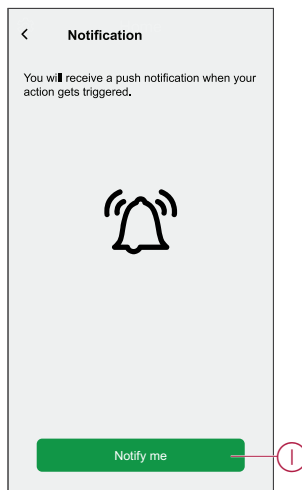
9. To add an action, tap **Then > Add an action** and select any of the following (H):

NOTE: Maximum 10 actions can be added.

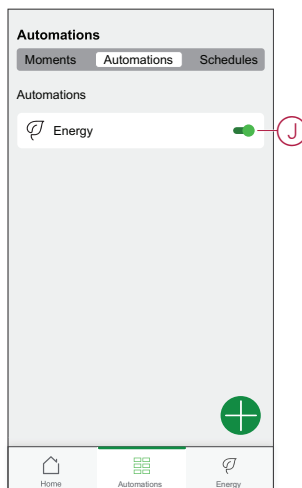
- **Control a device:** Select a device that you want to trigger.
- **Send notification:** Turn on the notification for the automation.
- **Activate a moment:** Select the moment that you want to trigger.



10. Tap **Notify me** (I) and then tap **Save**.




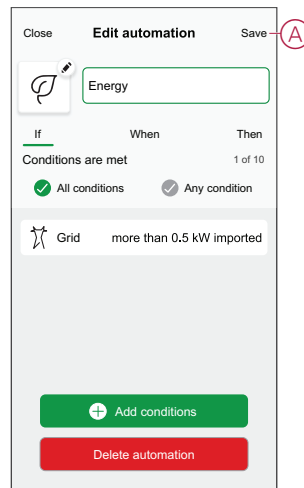
11. The saved Automation is displayed on the **Automation** page. Tap the toggle switch (J) to enable/disable the Automation.



Editing an automation

To edit an automation:

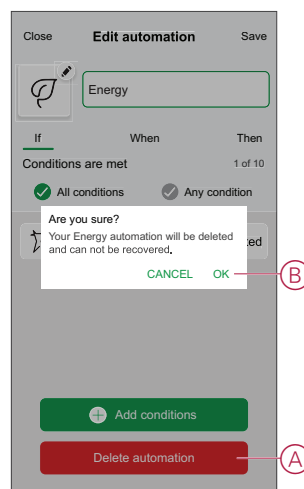
1. On the **Home** page, tap the .
2. In the **Edit automation** page:
 - Change the automation's name and icon.
 - Change the device's settings
 - Add a new action or condition
 - Delete an action or condition
3. Tap **Save (A)**.



Deleting an automation

To delete an automation:

1. On the **Automation** tab, tap the automation that you want to delete.
2. On the **Edit automation** page, tap **Delete automation (A)**.
3. Read the confirmation message and tap **OK (B)**.




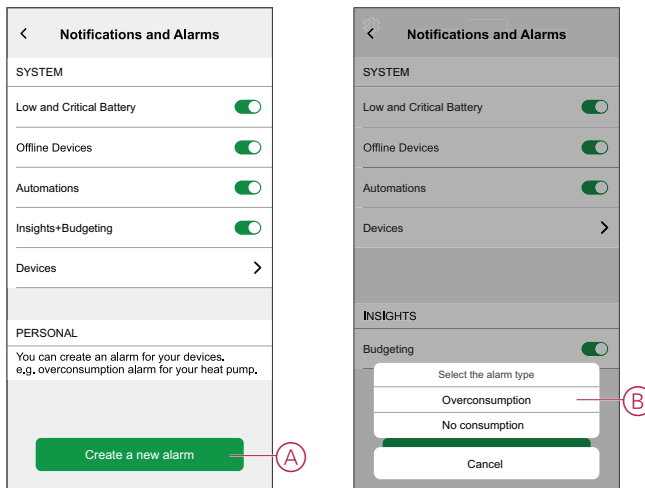
Triggering notifications and alarms

Using Wisier Home app, you can set alarms to notify overconsumption or no consumption of loads.

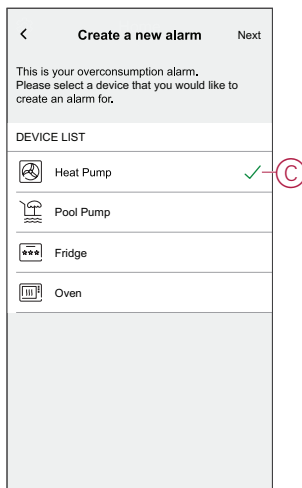
NOTE: Each device can have one overconsumption and one no consumption alarm.



To configure alarms:

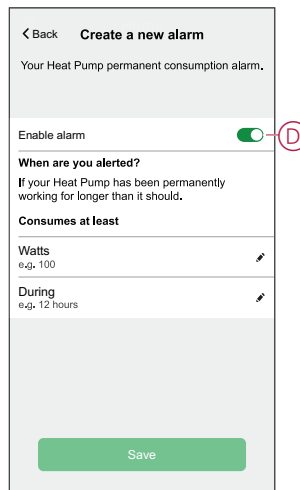
1. On **Home** page, tap .
2. Tap **Account > Notifications and Alarms**.
3. Tap **Create a new alarm (A)** and select an alarm type (B).



4. Select a device from the list (C) and tap **Next**.



5. Enable the toggle switch (D) to set the alarm.
6. Tap  (Watts) and enter a value to set a power limit.
7. Tap  (During), select a time limit and tap **Set** (E).



< Back **Create a new alarm**

Your Heat Pump permanent consumption alarm.

Enable alarm **D**

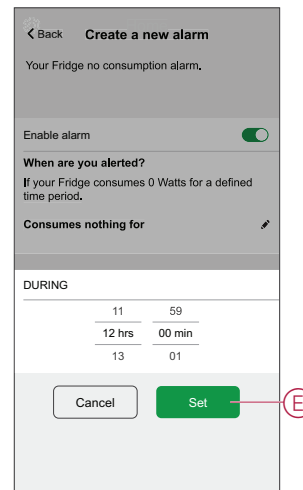
When are you alerted?
If your Heat Pump has been permanently working for longer than it should.

Consumes at least

Watts
e.g. 100

During
e.g. 12 hours

Save



< Back **Create a new alarm**

Your Fridge no consumption alarm.

Enable alarm

When are you alerted?
If your Fridge consumes 0 Watts for a defined time period.

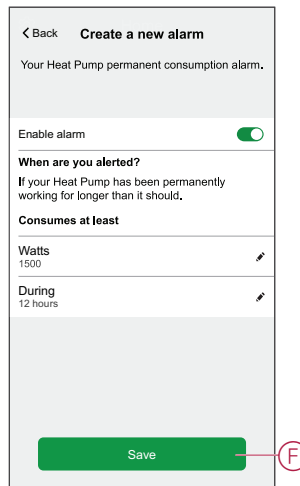
Consumes nothing for

DURING

11	59
12 hrs	00 min
13	01

Cancel **Set** **E**

8. Tap **Save** (F).



< Back **Create a new alarm**

Your Heat Pump permanent consumption alarm.

Enable alarm

When are you alerted?
If your Heat Pump has been permanently working for longer than it should.

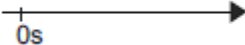






Consumes at least

Watts
1500


During
12 hours

Save **F**

LED indications

Behavior	Communication indicator light
	<p>PowerTag switched off.</p>
	<p>PowerTag is searching for a Hub in pairing mode.</p>
	<p>PowerTag is in identification mode.</p>
	<p>PowerTag is in network. Normal communication with the Hub.</p>
	<p>Occasional loss of communication.</p>
	<p>Loss of communication with the Hub.</p>
	<p>Internal error detected.</p>

Troubleshooting

Symptom	Possible cause	Solution
 displayed in the Wiser Home app	Device Error	Try reinstalling the device. If the error persists, replace the device.
Individual PowerTag data is not available in home page.	<ul style="list-style-type: none"> • Device is offline. • System/Hub is unable to receive data from the PowerTag. • Ethernet connection is incorrect for Hub. 	Restart the device. Also, ensure to correct the Ethernet connection.
The hourly data is incorrect against real local time.	Incorrect time configuration as per the user's country.	Set correct time zone as per your country.
The LED of PowerTag is blinking amber.	PowerTag not yet commissioned to the hub for the first time.	Commission the PowerTag to the hub. Refer to Pairing the device, page 7.
	PowerTag is out of range from Hub.	Perform any of the methods: <ul style="list-style-type: none"> • Reduce the distance between the hub and the device. • Power OFF any other Hub in the area which have wireless devices. <ul style="list-style-type: none"> ◦ Remove the device from the hub via the app. ◦ Do a power cycle by switching OFF and ON the Hub and the circuit breaker on which the PowerTag is installed. ◦ Ensure the PowerTag is blinking amber and then pair the device to Hub via app.
The LED of PowerTag blinks red rapidly.	PowerTag is out of range from Hub.	Perform any of the methods: <ul style="list-style-type: none"> • Reduce the distance between the hub and the device. • Power OFF any other Hub in the area which have wireless devices. <ul style="list-style-type: none"> ◦ Remove the device from the hub via the app. ◦ Do a power cycle by switching OFF and ON the Hub and the circuit breaker on which the PowerTag is installed. ◦ Ensure the PowerTag is blinking amber and then pair the device to Hub via app. <p>NOTE: If the LED still blinks red, replace with a new device and try adding again.</p>
	Hub is powered down	Power ON the Hub.
The LED of PowerTag is glowing red permanently.	The device is not working permanently.	Replace with a new device and try adding again.
The LED of PowerTag is OFF	PowerTag is probably not powered ON.	Recheck the wiring and power connection of the PowerTag and see if gets powered ON. Try adding the device after it is powered ON. If the above mentioned method do not work, replace the PowerTag and retry.

Technical data

Main data

Commercial Reference	R9M20	R9M40	R9M41	R9M60	R9M70
E-number	Not defined				
Product color	White				
Product or component type	Energy Sensors				

Features

Rated Voltage	Un	1P+W / 1P+N	Phase-to-neutral	200...240 V AC \pm 20 %
	Un	3P	Phase-to-phase	380...415 V AC \pm 20 %
	Un	3P+N	Phase-to-neutral	220...240 V AC \pm 20 %
			Phase-to-phase	380...415 V AC \pm 20 %
Frequency	50/60 Hz			
Maximum current	I _{max}		63 A	
Basic current	I _b		10A	
Saturation current			130 A	
Starting current	I _{st}		40 mA	

Environment

Operating temperature		-25 °C to +60 °C
Storage temperature		-40 °C to +85 °C
Overvoltage category	As per IEC 61010-1	Cat. III
Measuring category	As per IEC 61010-2-030	Cat. III
Altitude		\leq 2000 m
Degree of protection	Device only	IP20
	IK	05

Radio-frequency communication

ISM band 2.4 GHz		2.4 GHz to 2.4835 GHz
Channels	As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power	Equivalent (EIRP)	0 dBm
Maximum transmission time		< 5 ms
Channel occupancy	Messages sent every	5 seconds (approx.)

Characteristics of measuring functions

Function		Performance category as per IEC 61557-12 PMD-I/DD/K55/1	Device measuring range
Active energy (delivered and received)	Ea	Class 1	Total and partial 0 to 99999999.9 kWh
Current	I	Class 1	40 mA to 63 A
Voltage	U	Class 0.5	Un ± 20 %

Weight

R9 M63	Type	Weight (g)
	1P + Wire	16.4
	1P + N	17.5
	3P	28
	3P + N	35

Compliance

Compliance information for Green Premium products

Find and download comprehensive information about Green Premium products, including RoHS compliance and REACH declarations as well as Product Environmental Profile (PEP) and End-of-Life instructions (EOLI).

General information about Green Premium products

Click the link below to read about Schneider Electric's Green Premium product strategy.

<https://www.schneider-electric.com/en/work/support/green-premium/>

Find compliance information for a Green Premium product

Click the link below to search for a product's compliance information (RoHS, REACH, PEP and EOLI).

NOTE: You will need the product reference number or product range to perform the search.

<https://www.reach.schneider-electric.com/CheckProduct.aspx?cskey=ot7n66yt63o1xblflyfj>

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