

# Energy Monitoring Device Three Phase

## Device User Guide

Information about features and functionality of the device.

09/2025



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# Cybersecurity Principles

Following these cybersecurity principles may help to reduce the risk of cyber threats to the network where your system is installed.

- **Strong and Unique Passwords:** Use strong, unique passwords for your mobile app account and each connected device. Avoid using common or easily guessable passwords. Consider using a password manager to securely store your passwords.
- **Regularly Update Software:** Keep your mobile app, smartphone operating system, and smart home device firmware up to date. Updates often include security patches that address vulnerabilities and protect against potential threats.
- **Secure Network:** Ensure that your home Wi-Fi® network is secured with a strong password and encryption (WPA2 or higher). Avoid using public Wi-Fi® networks when interacting with your smart home app as they may be insecure and expose your data.
- **Two-Factor Authentication (2FA):** Enable 2FA if your smart home app supports it. This adds an extra layer of security by requiring a second verification step, such as a unique code sent to your mobile device, when logging in.
- **Only Download Official Apps:** Use official app stores (such as Google Play Store or Apple App Store) to download the mobile app for your smart home solution. Avoid downloading apps from unofficial sources, as they may contain malicious software.
- **Be Cautious with Permissions:** Review the permissions requested by the app during installation. Grant only the necessary permissions required for the app to function properly. Be cautious about granting unnecessary access to your device's location, camera, or microphone.
- **Regularly Review Connected Devices:** Periodically review the list of connected devices in your smart home app. Remove any devices that are no longer in use or unfamiliar to you, as they may pose a security risk.
- **Regularly Monitor Activity:** Keep an eye on the activity logs or notifications provided by the smart home app. Look for any suspicious or unauthorized access attempts, and report them to the app provider immediately.
- **Secure Physical Access:** Ensure that your smartphone and other devices used to control your smart home are protected with a lock screen or biometric authentication. This helps prevent unauthorized access in case of loss or theft.
- **Educate Yourself:** Stay informed about the latest cybersecurity best practices and potential threats related to smart home devices. Regularly update your knowledge to make informed decisions and protect your smart home ecosystem.

## Decommissioning a device

If you remove a device from your system to gift, resell, or otherwise dispose of, first remove any personally identifiable information from the device by performing a factory reset. This is especially important when decommissioning a system gateway. Refer to the particular device instructions for information on how to perform a factory reset.

# Wiser App

For Wiser system related information, refer to System User Guide.

# 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.

# Energy Monitoring Device Three Phase



ENMOD3P

## For your safety

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

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

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



## About This Product

ENMOD3P is a three phase, three channel communication Energy Monitoring Device (EMD). Its ability to connect to Wi-Fi without the need for a gateway enables convenient circuit monitoring.

EMD is also suitable for monitoring for a three phase system of:

- Solar energy monitoring,
- Diesel Generator (DG) energy monitoring,
- Machinery or equipment monitoring,
- Individual circuit monitoring.

The accuracy of the product is class 2. It can be mounted on the DIN rail along with the protection devices in the distribution board or can be wall mounted using the provided accessory. One of the key feature of the EMD is its support for data availability through the Wiser app for iOS and Android, which allows you to access and monitor the data for the connected circuits. Multiple EMD can be used for different circuits and aggregated to have a consolidated data. It also offers RS-485 port for wired connection and external antenna for better connectivity.

The key features of ENMOD3P are:

- It accurately measures real-time values of:
  - Voltage
  - Current
  - Power factor
  - Active power
  - Apparent power
  - Reactive power
  - Active energy
  - Apparent energy
  - Reactive energy
- Through the Wiser application for iOS and Android, ENMOD3P provides:
  - Support for data availability
  - Overall energy management

**NOTE:**

- Current Transformers (CTs) and the ENMOD3P device are not interchangeable with other ENMOD3P devices and CTs.
- Check MAC ID marking on the product and CT for confirmation.



## Technical Data

<b>Technical</b>	
<b>Power supply</b>	
Phase	Three phase
Rated voltage	100/173 - 277/480 Vac*
Power consumption	3W
<b>Sensor/CT</b>	
Number of sensors	3 (3 Incomer)
Rating of sensors	Incomer 100 A
Connection between sensors and Meter/Reader	Wired
Sensor/CT footprint (L x W x H)	32 mm x 32 mm x 46.5 mm
CT hole diameter	ID 16 mm
CT type	Split
<b>Communication</b>	
Supported protocols	Wi-Fi® (2.4 GHz)
Over-the-Air (OTA) firmware updates	Yes
Offline data recording	2 months data logs


**NOTE:** \*Rated voltage is represented as 1P/3P. Values are from minimum to maximum.

## LED Indications


### Pairing




User Action	LED Indication (Network LED)	Status
Press the reset button 4 times.	Blinking red rapidly. 	Pairing mode is active.
Press the reset-button 8 times to change the Wi-Fi access point mode.	Blinking red rapidly. 	The device is ready to connect with the new Wi-Fi access point.  <b>NOTE:</b> If there is no CT (Current Transformer) connected to the load, then the LED will not turn ON in the Energy Monitoring Device.

### Resetting

User Action	LED Indication (Network LED)	Status
Press the push-button 14 times in 10 s.	Solid red. 	The device is in reset mode. It is reset to the factory settings. The device then restarts and the LED stays in red for 10 s before turning off.

### Other Indicator Mode

LED Indicator Mode	LED Indication (Channel LED)
Always Off	No LED
Always On	Solid blue 

LED Indicator Mode	LED Indication (Network LED)
Reset state, not paired, not added	Solid red 
Device paired but not connected to Wi-Fi	Blinking red with 1 second delay 
OTA update	Blinking Red and Blue Alternatively 

## Installing the Device

Refer to the installation instruction supplied with this product.

Installation instruction link:

- [Energy Monitoring Device 3 Phase](#)



**NOTE:** It is recommended to install the patch antenna within range of the Wi-Fi router for best results. This provides a good network strength and helps to prevent online/offline issues, which might result in corrupting data.

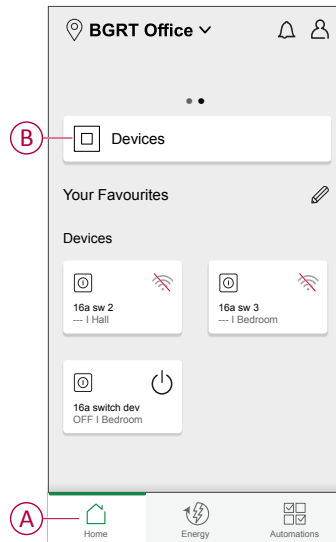
## Pairing the Device


Pair the ENMOD3P device with the **Wiser** app to access and control the device.

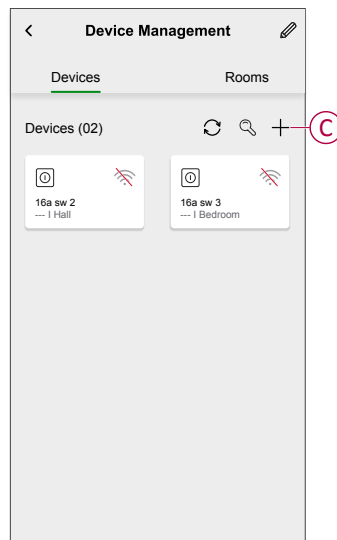
**IMPORTANT:** Before pairing the device, connect your mobile to the home Wi-Fi network.

To pair the device:

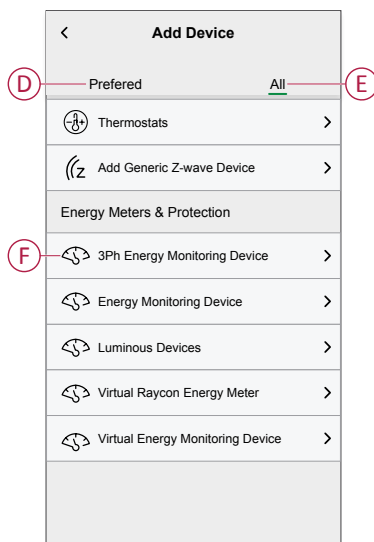
1. Open **Wiser** app on your phone.
2. On the  **Home** page (A), tap  **Devices** (B).



3. Tap  (C) to add a device.



4. The **Add Device** page includes the following tabs:
- **Preferred (D)**: This tab allows you to select a device directly from the preferred list.
    - Select **Preferred > 3Ph Energy Monitoring Device (F)**.
  - **All (E)**: This tab includes all available devices for you to select from.
    - Select **All > Energy Meters & Protection> 3Ph Energy Monitoring Device (F)**.
- TIP:** You can select a device from either tab based on your preference.



5. Read the instructions and tap **Next**.
6. Enable permissions to Bluetooth and Wi-Fi for scanning the devices and tap **Next**.

7. Add the following device information and tap **Next**:



- **Type of location (G)**: Select the location of the device from drop-down list.  
**NOTE**: If you want to add a custom name of the location, select **Enter custom name** and enter name in **Location Name** field.
- **Area of the location (in sq ft) (H)**: Enter the size of the area.
- **Select Room (J)**: Select the room from drop-down list.  
**NOTE**: If you want to add a custom name of the room, select **Add New Room** and enter name in **Enter Room Name** field.
- **Name your Energy Meter (K)**: Enter the device name.
- **Energy Source (L)**: Select the energy source from drop-down list.

The screenshot shows a mobile app interface titled "Device Information". It contains five input fields, each with a red circle and a letter label to its left: (G) Type of location (a dropdown menu), (H) Area of the location (in sq.ft) (a text field containing "2500"), (J) Select Room (a dropdown menu), (K) Name your Energy Meter (a text field), and (L) Energy Source (a dropdown menu). At the bottom of the form is a green button labeled "Next".

Based on **Energy Source** selected, you will get additional field to update as shown in following table:

This screenshot shows the "Device Information" form with the "Energy Source" dropdown menu expanded. A red box highlights the list of options, and a red circle with the letter (L) points to this list. The options are: Grid (with a plug icon), Solar (with a solar panel icon), Genset (with a generator icon), Battery (with a battery icon), and Electric Vehicle (EV) (with a car icon). Below the list is the "Energy Source" dropdown label and a green "Next" button.


Energy Source Selected	Additional Fields to Update
Grid	Grid Monthly Budget (kWh)
Solar	<ul style="list-style-type: none"> <li>◦ Solar Rated Output in kW</li> <li>◦ Capital Investment</li> </ul>
Genset	<ul style="list-style-type: none"> <li>◦ Genset Rating in kW</li> <li>◦ Genset Rating in kVA</li> <li>◦ Power factor rating between 0.1 and 1</li> <li>◦ Voltage Capacity in Volts</li> <li>◦ Current Capacity in Ampere</li> <li>◦ Installation Date</li> </ul>
Battery	Battery Capacity in kWh
Electric Vehicle (EV)	Electric Vehicle (EV) Capacity in kWh
Load	<ul style="list-style-type: none"> <li>◦ MCB Connected Room Name</li> <li>◦ Add Connected Load</li> </ul>

8. Tap   arrows to read all the instructions under **Hardware Installation**. Check the following boxes to confirm the status of the LED indicators:

- Power LED in solid red.
- Internet LED in blinking red.

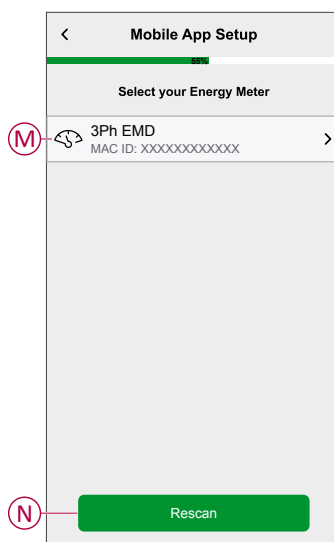
**NOTE:**

- If the Power LED is not in solid red, then check the power connection.
- If the Internet LED remains in solid red, then tap the reset button four times.
- If the Internet remains in slow blinking red, then tap the reset button fourteen times.

9. Tap  to start the Bluetooth scanning.

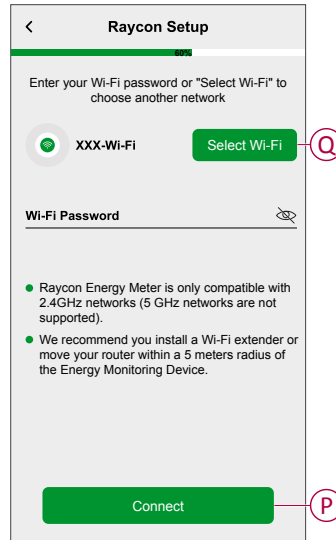
10. Select the Energy Meter device from the list (M).

**NOTE:** If you are unable to find the device, tap **Rescan** (N).



11. Enter the Wi-Fi password and tap **Connect** (P).

**NOTE:** To change the Wi-Fi, tap **Select Wi-Fi** (Q)



12. Now, your Energy Meter is added successfully in the App. You can see the newly added device on the **Devices** page.



## Using the Device

The following topics in this section help you use the device.

### Grid Details

You can find the detailed information about grid in the **Grid** tab.

Tap **Devices** > **3 ph EMD** > **Grid** (A).

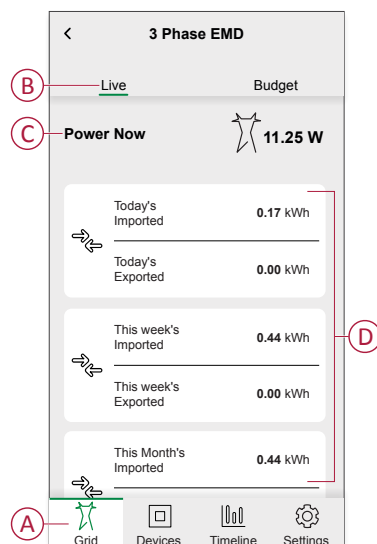
**Grid** has following two tabs:

#### Live

Tap **Grid** (A) > **Live** (B).




To know the live power consumption see **Power Now** (C).

You can find today's, this week's, and this month's consumption with the monetary value (D).

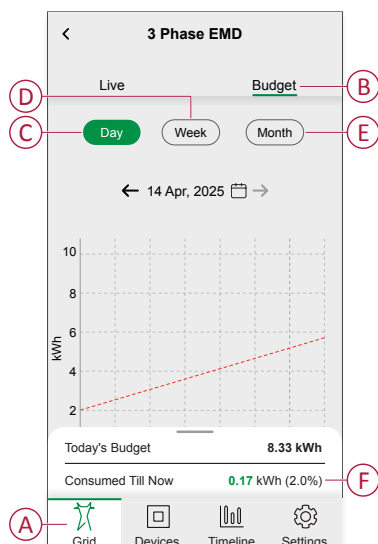


## Budget

Tap **Grid** (A) > **Budget** (B).

- To see day wise budget, tap **Day** (C) >  > select the date > **OK**.
- To see week wise budget, tap **Week** (D) >  > select the week > **OK**.
- To see month wise budget, tap **Month** (E) >  > select the month > **OK**.

You can find the allocated budget, how much you have consumed till now, how much CO2 saved, what is the alert values (F).



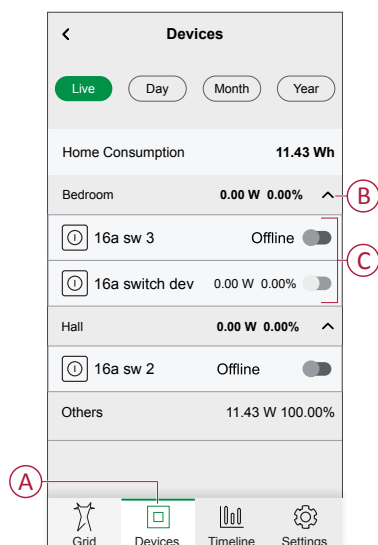
## Devices

**Devices** tab provides the information about the smart devices linked to the incomer.

Tap **3 Phase EMD** > **Devices** (A).

To view associated smart devices (C), tap the drop-down list (B) of the required load.

You can turn them ON (●) or OFF (■) as needed.






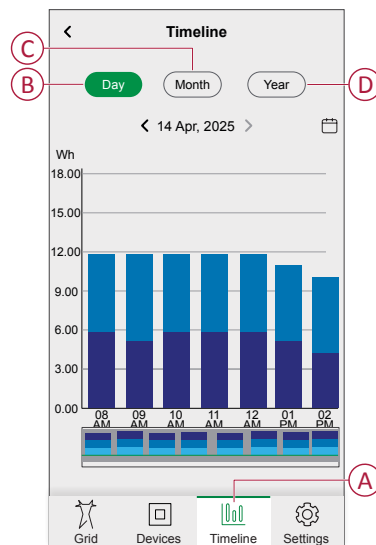
## Timeline

The **Timeline** tab displays the device's total energy consumption in kilowatt-hours (kWh) over several time intervals such as the hour, day, last 7 days, month, and year. This allows you to track and analyze your energy usage patterns over a specific time.

### 1. Tap **3 Phase EMD > Timeline** (A).

Timeline displays the following options:

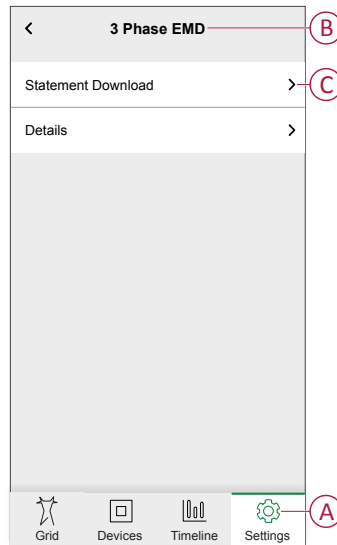
- To display the total consumption for the selected day, in consumption per 1 hour interval, tap **Day** (B) >  > select the date > **OK**.
- To display the total consumption for the selected month, in consumption per 1 day interval, tap **Month** (C) >  > select the month > **OK**.
- To display the total consumption for the selected year, in consumption per 1 month interval, tap **Year** (D) >  > select the month > **OK**.





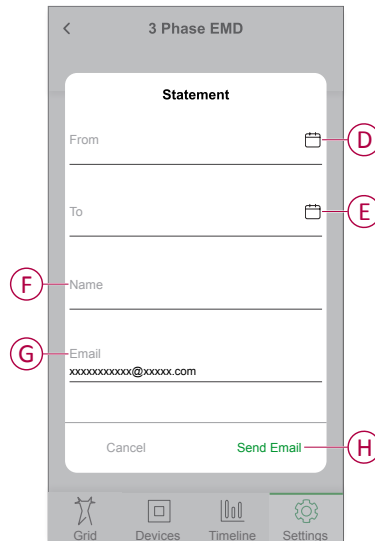
## Statement Download

You can get a statement of energy consumption details over an email.

1. Tap  **Settings** (A) > **3 Phase EMD** (B) > **Statement Download** (C).



2. Tap **From**  (D) and select the start date from which you want the statement.
3. Tap **To**  (E) and select the end date to which you want the statement.
4. Enter the name in **Name** (F) field.
5. Enter the email id in **Email** (G) field.
6. Tap **Send Email** (H) > **OK**.





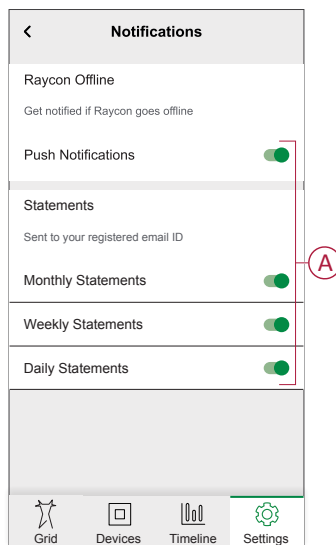
An email with statement will be sent to your email address in few minutes.

## Notifications

You can enable push notifications for following:

- To get notified if **3 Phase EMD** goes offline.
- To get notified when you receive daily, weekly, and monthly statements in your registered email ID.

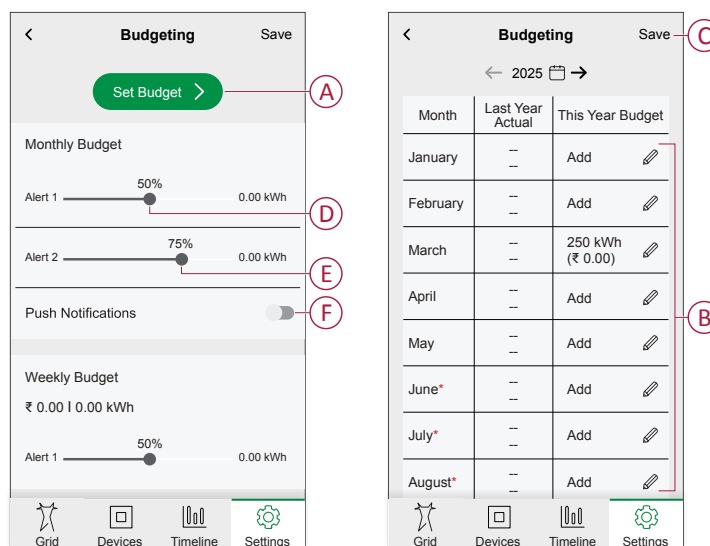
1. Tap  **Settings** > **3 Phase EMD** > **Notifications**.
2. Tap  to enable notifications (A) respectively.



## Budgeting

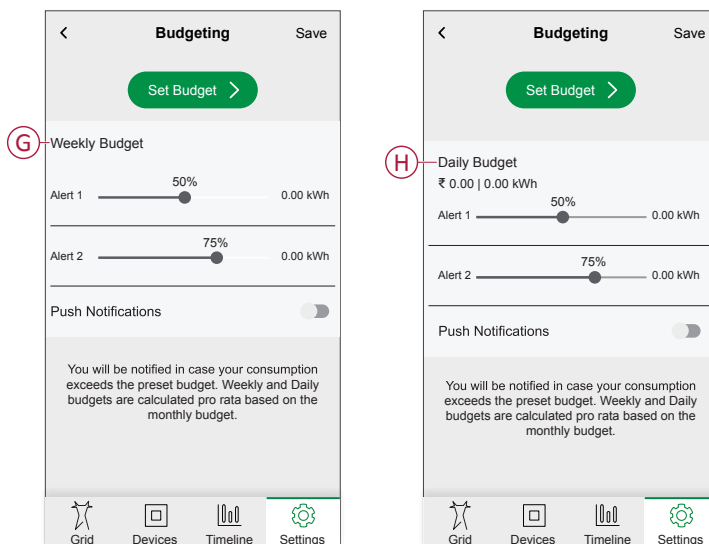
Budgeting allows you to set your budget on daily, weekly, and monthly power consumptions and create alert once you reach certain percentage of that budget.

1. Tap **Settings** > **Budgeting**.
2. Tap **Set budget** (A).
3. Tap against each month field to update monthly budget (B) in kWh.
4. Tap **Save** (C) > **OK**.
5. Drag the slider button to set the **Alert 1** (D) and **Alert 2** (E) for monthly budget.



**NOTE:** Alert 1 value should always be less than Alert 2 value.



**NOTE:** Weekly Budget (G) and Daily Budget (H) are calculated pro rata based on Monthly Budget.

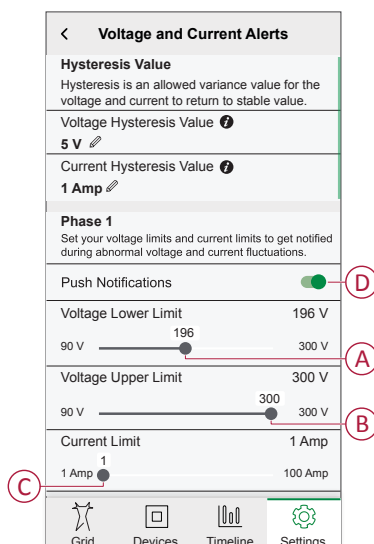


6. To enable **Push Notifications**, tap (F) button.  
The app will send you notification of alerts.

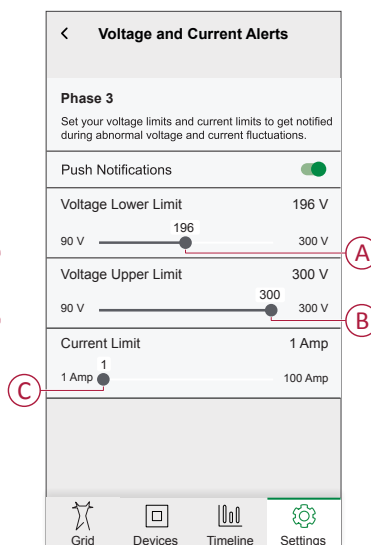
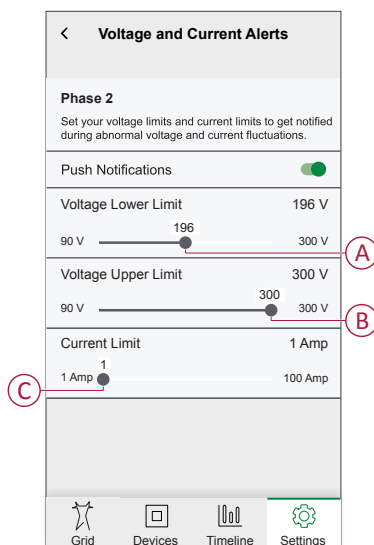
## Voltage and Current Alerts

Set your voltage limits and current limits to get notified during abnormal current fluctuation.

1. Tap  **Settings > Voltage and Current Alerts**.
2. Drag the slider button to set the **Voltage Lower Limit (A)**, **Voltage Upper Limit (B)**, and **Current limit (C)**.
3. To enable **Push Notifications**, tap  button (D).





4. Follow the same process for the Phase 2 and Phase 3 respectively.

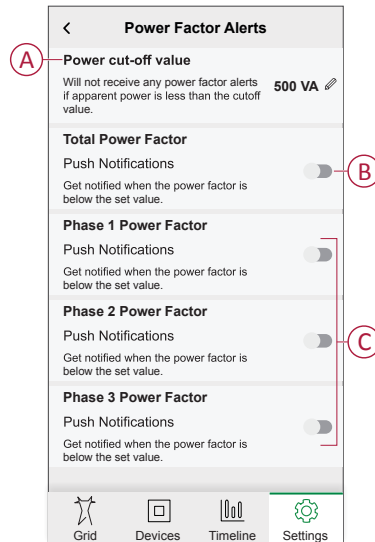


## Power Factor Alerts

Get notified when the power factor is below the set value.


1. Tap  **Settings > Power Factor Alerts**.
2. Tap  to enter **Power cut-off value (A)**.
3. Tap **Push Notifications (B)** to enable notifications for **Total Power Factor**.

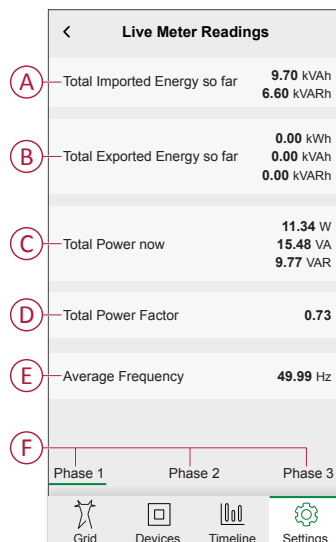
4. Tap **Push Notifications (C)** to enable phase-wise notifications.



## Live Meter Readings

Get live energy and power reading details from **Live Meter Readings**.



1. Tap  **Settings > Live Meter Readings**.
2. Get following live reading details:
  - **Total Imported Energy so far (A)**
  - **Total Exported Energy so far (B)**
  - **Total Power now (C)**
  - **Total Power Factor (D)**
  - **Average Frequency (E)**
3. Tap **Phase 1**, **Phase 2**, and **Phase 3** tabs (F) to get the live details phase-wise.

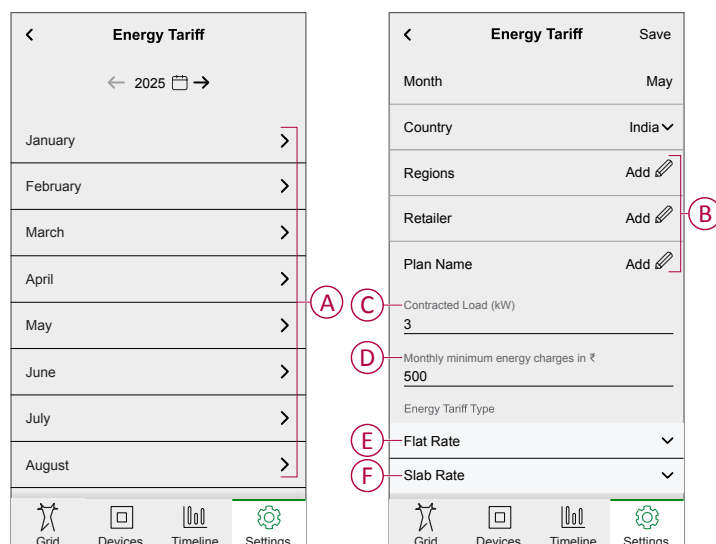




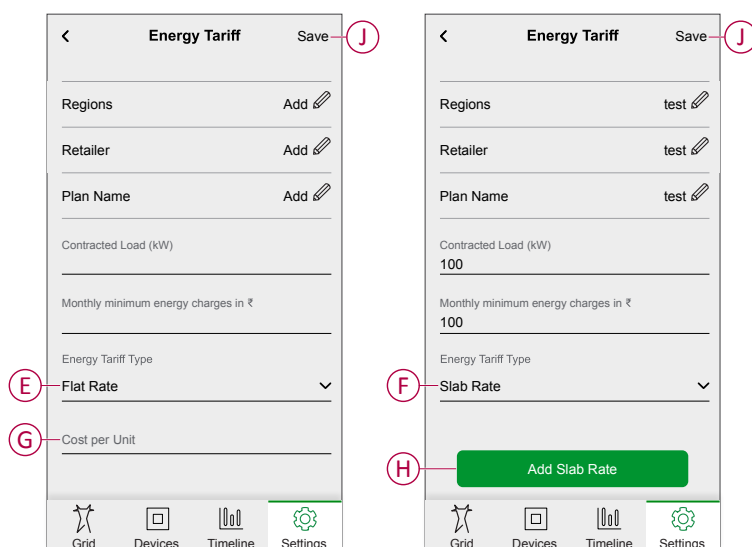
## Energy Tarrif

To effectively use the device you can add the energy tariff information.

1. Tap  **Settings > Energy Tarrif**.
2. Select the month (A) you want to update the tarrif.
3. Tap  to add the details (B).
4. Enter the details in **Contracted Load (kW)** (C). and **Monthly minimum energy charges in ₹** (D).
5. Select the **Energy Tariff Type** from the drop-down list.







- When you select **Flat Rate** (E), enter the details in **Cost per Unit** (G).
- When you select **Slab Rate** (F), tap **Add Slab Rate** (H) to add the details.

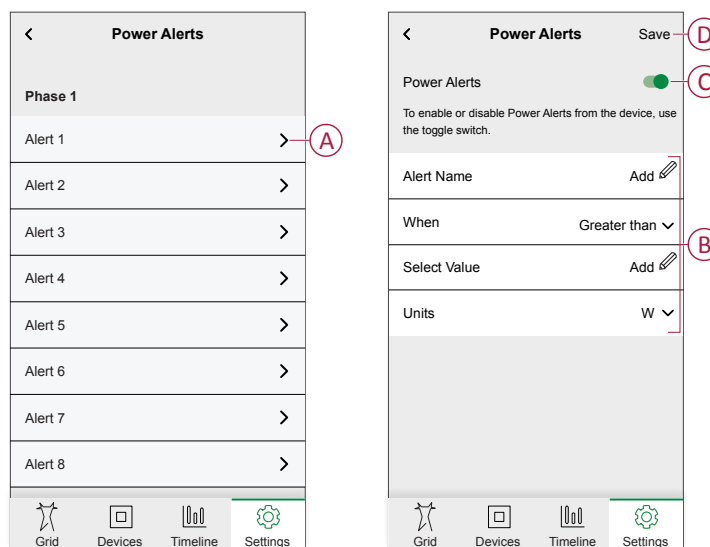


6. Tap **Save** (J).

## Power Alerts

You can create **Power Alerts** to get notified on time.

1. Tap  **Settings** > **Power Alerts**.
2. Select any of the **Alerts** (A) to update following fields (B):
  - **Alert Name:** Tap  to add the name of alert.
  - **When:** Select **Greater Than** or **Less Than** from the drop-down list.
  - **Select Value:** Tap  to add the value.
  - **Units:** Select the unit from drop-down list.
3. Tap toggle switch  (C) to enable the alert.
4. Tap **Save** (D) to save the alert.





**NOTE:** You can set maximum of eight alerts for each phase.

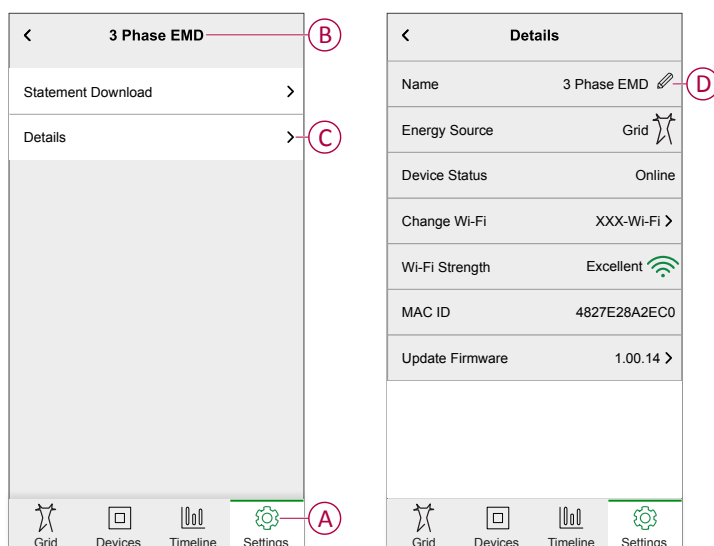
## Configuring the Device

The following topics in this section help you configure the device.

### Renaming the Device


You can rename the device name using the Wiser app.

1. Tap  **Settings** (A) > **3 Ph EMD** (B) > **Details** (C).
2. Tap  to rename the device (D).

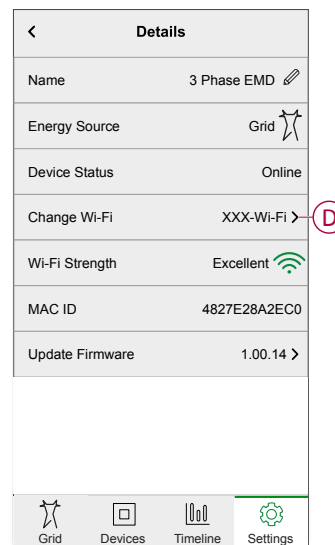
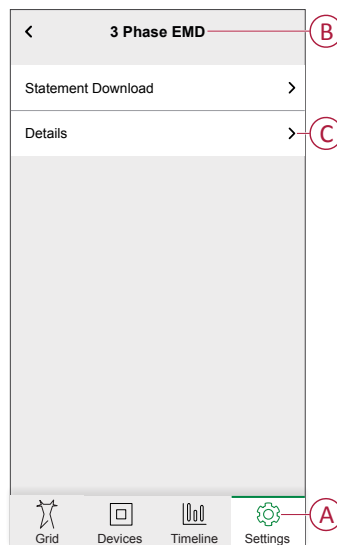


## Changing the Wi-Fi Access Point

You can change the Wi-Fi network using the Wiser app.





1. Tap  **Settings** (A) > **3 Ph EMD** (B) > **Details** (C).
2. Based on device status, take following steps:

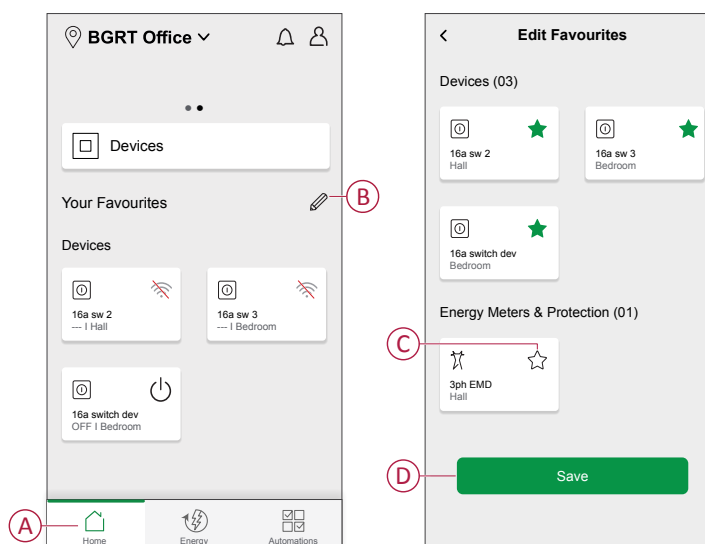
Device Status	Steps
If <b>Device Status</b> is <b>Online</b> .	<ol style="list-style-type: none"> <li>1. Tap <b>Change Wi-Fi</b> (D) to change the Wi-Fi network. A pop-up will appear, asking for password of Wiser app.</li> <li>2. Enter the Wiser app password and tap <b>Confirm</b>.</li> <li>3. Select your preferred Wi-Fi network and enter the password in <b>Wi-Fi Password</b> field and tap <b>Connect</b>.</li> </ol>
If <b>Device Status</b> is <b>Offline</b> .	<ol style="list-style-type: none"> <li>1. Tap <b>Change Wi-Fi</b> (D) to change the Wi-Fi network. A pop up will appear, asking for password of Wiser app.</li> <li>2. Enter the Wiser app password and tap <b>Confirm</b>. This will initiate the device pairing mode.</li> <li>3. Refer to <i>Pairing the Device</i>, page 12 for the pairing instructions.</li> </ol>





## Managing the Device to Favourites

You can add devices to the favourites list using the Wiser app.


1. On the  **Home** tab (A), tap  next to **Your Favourites** (B).  
The **Edit Favourites** page appears.
2. Tap the star  (C) next to the device name.  
The star turns green .
3. Tap **Save** (D) to mark the product as favourite.

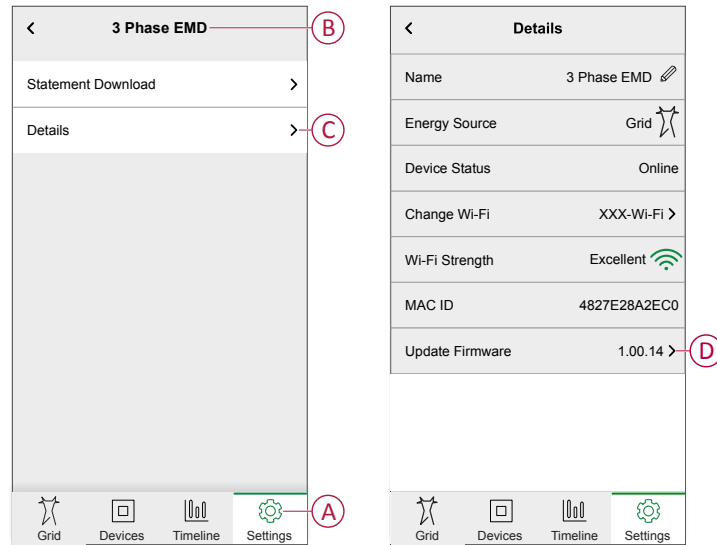


4. To remove the device from the favourites:
  - a. Tap  next to **Your Favourites**.
  - b. Tap the green star  to deselect the device and tap **Save** (D).

## Updating Firmware

You can update the Wiser app to the latest firmware version.

1. Tap  **Settings** (A) > **3 Ph EMD** (B) > **Details** (C).
2. Tap **Update Firmware** (D).





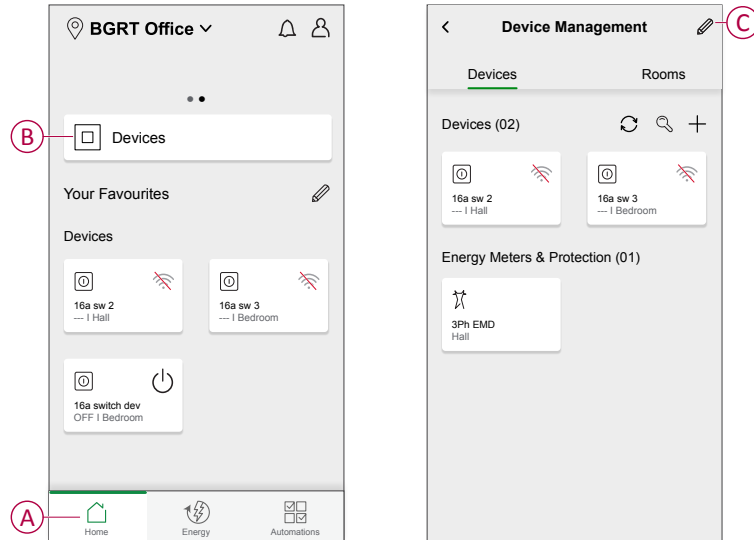
A pop up will appear, asking for Wiser app password.

3. Enter the Wiser app password and Tap **Continue**.  
An OTP will be sent to your registered email address.
4. Enter the OTP and tap **Submit**.  
It will check for the latest version of firmware and update the app.

## Removing the Device

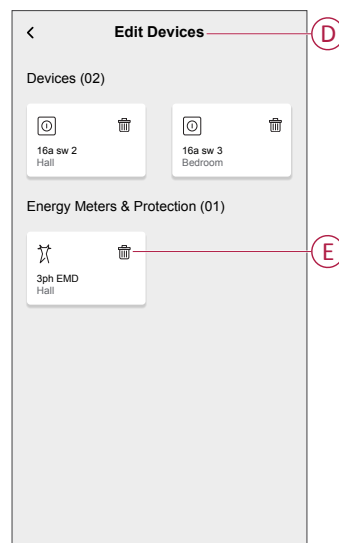
Using the Wiser app, you can remove a device from the device list.

1. On the  **Home** tab (A), tap **Devices** (B).  
The **Device Management** page appears.
2. Tap  next to **Device Management** (C).



The **Edit Devices** page (D) appears.

3. Tap to the **Delete** button (E) next to device and tap **Confirm** to save the choice.



**NOTE:** By removing the device, you will reset the device. If you still have a problem with the reset, then refer to **Resetting the device**.

## Resetting the Device

Short-press the push button 14 times. The LED blinks red for 10 s. 

**NOTE:** After reset, the device is ready for pairing.

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DUG\_Energy Monitoring Device Three Phase-01