

USER MANUAL For MCU - BT Series



Work with
Sunny - Link



Bluetooth



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Part 1

Self-Contained Emergency Light MCU-BT Series

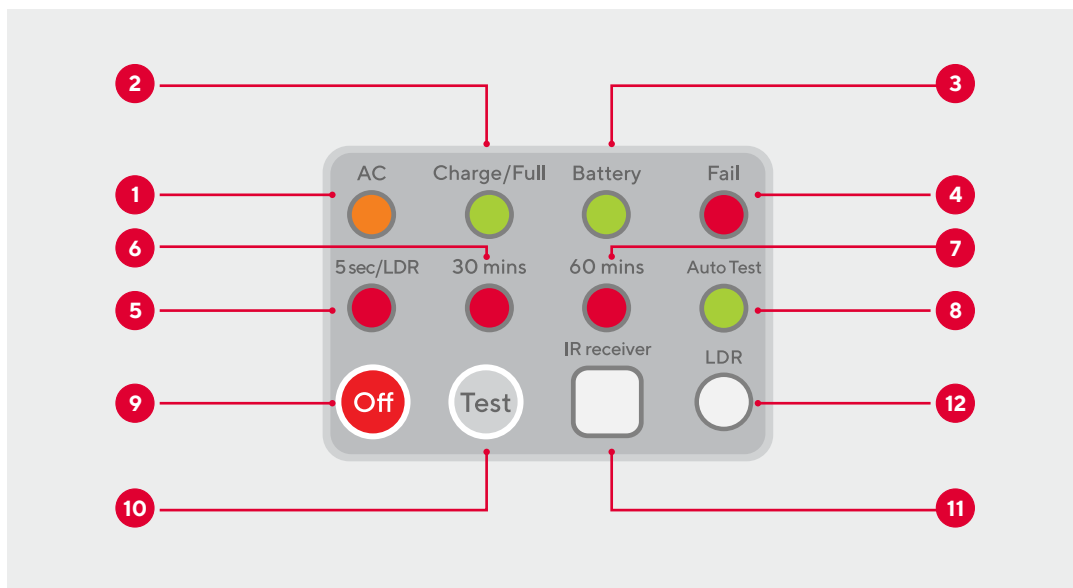
1.1 Features

1. Operating through mobile applications on iOS and Android using Bluetooth 4.0 technology
2. Controlled by a highly intelligent 8-bit micro controller.
3. Set automatic testing time every month for 15 minutes and every 1 year for 120 minutes according to TIS 021004-22 standard or set custom date and time by setting the date/time and duration for automatic device testing through the smartphone application using Bluetooth 4.0 technology
4. View device operating status through Mobile Application using Bluetooth 4.0 technology
5. Use Infrared Remote Testing to quickly test the device remotely for 5 seconds, 30 minutes, 60 minutes, and turn on/off the automatic device testing system and shut down the device operation system
6. Use the button on the front of the device for manual testing
7. Has a Light Detector (LDR) function to detect ambient light in the area of use. When the light level is less than 5 Lux, the device will operate immediately during a power outage.
8. Alerts with a sound before the system stops battery operation (Low Voltage Sound Indicator)
9. Uses high-quality LED bulbs with a long lifespan of over 50,000 hours, providing consistent illumination throughout the backup power duration
10. The Housing is made from ABS plastic UL94 V-O (Flame Retardant), providing excellent heat resistance, impact resistance, and durability against various weather conditions.

1.2 Technical specifications

Model	MCU209CD4 - BT	MCU209CD6 - BT	MCU212CD3 - BT	MCU212CD4 - BT
Mode Of Operation	Non – Maintained			
Operation Temperature	-10 to 50°C			
Input Voltage	220-240VAC / 50Hz			
LED Lamp Power	9W / Bulb		12W / Bulb	
Color Temperature	<div><div>-</div>Warm Whit (3000K ± 250K)<div>-</div>Daylight (6000K ± 250K)</div>			
Luminous Intensity	870.8 lm, Warm White		-	
	919.4 lm, Daylight		960.1 lm, Daylight	
Battery Type / Capacity	Lithium Iron Phosphate (LiFePO4) 12.8V- 4000mAh	Lithium Iron Phosphate (LiFePO4) 12.8V- 6000mAh	Lithium Iron Phosphate (LiFePO4) 12.8V- 4000mAh	Lithium Iron Phosphate (LiFePO4) 12.8V- 6000mAh
Charging Method	3 Steps Charger System			
Charging Period	10 – 15 Hrs.			
Backup Time	4 Hrs.	6 Hrs.	3 Hrs.	4 Hrs.
Testing Systems	<div><div>-</div>Auto Check<div>-</div>Auto Test<div>-</div>Manual Test or Remote Test</div>			
Protection Features	<div><div>-</div>AC, DC Fuse<div>-</div>Battery Low Voltage Cut-Off<div>-</div>Surge Protection</div>			
Dimensions (LxWxH)	250 x 80 x 230 mm.			
Weight (Kg)	1.86	2.10	1.86	2.10
Degree of Protection	IP20			

1.3 Status Indicators



No.	Symbol	Description
1	LED AC .	Indicates that the unit is receiving a power supply
2	LED Charge/Full	Indicates that the unit's battery is charging
3	LED Battery	Indicates that the unit is receiving a power
4	LED Fail	Indicate error status.
5	LED 5 sec/LDR	Indicates device testing status for 5 seconds and shows the light sensor usage status
6	LED 30 mins	Indicate the unit is performing a 30-minute test.
7	LED 60 mins	Indicate the unit is performing a 60-minute test.
8	LED Auto test	Indicate automatic battery testing status
9	Switch Off	Press to turn off device testing and shut down the device system
10	Switch Test	Press to test the device's availability (during normal circumstance and the unit is plugged in)
11	IR receiver	Infrared signal receiver
12	LDR	Light detector sensor

Part 2









Installation and Operation

2.1 Installation and Operation

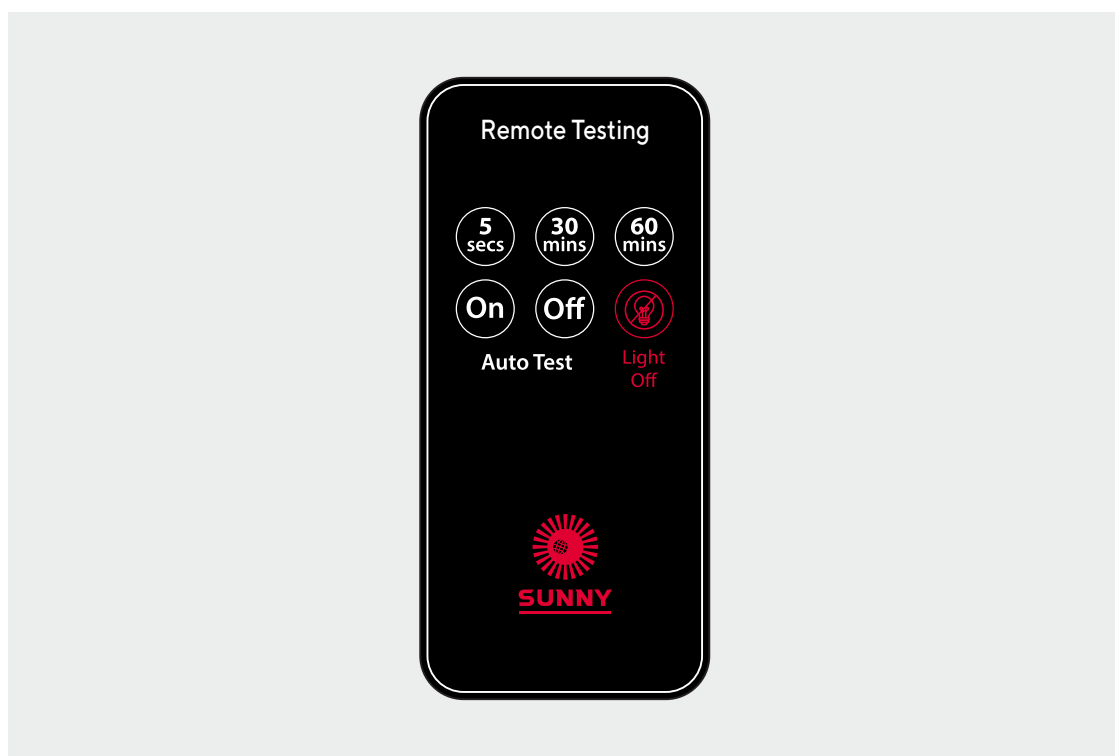
1. The unit can be installed on leveled ground or hung up.
2. Install properly and securely to prevent accidents that could cause damage to the unit or other people and property.
3. Plug the unit into a power socket with a 230VAC power supply.
4. Notice the LED will show the status as follows
 - 4.1 The LED "AC" will turn on indicating that the unit is receiving power.
 - 4.2 The LED "Battery" will turn on indicating the battery voltage level; after 5 seconds, it enters battery charging state
 - 4.3 The LED "Charge/Full" will be flashes to indicate that the device is charging the battery
 - 4.4 The LED "Charge/Full" will be off when the battery is fully charged.
5. To use the Light Detector function, press the Off+Test switch once on the device.
 - In case the Light Detector function is used, the device will check the light level. If the area has a light level above 5 Lux, the emergency light will not draw power from the device's battery in order to reserve the battery charge for when it is truly needed.
 - If the Light Detector function is not selected, the emergency light will function like a normal emergency light without considering the ambient light level. If there is a power outage, the device will immediately provide illumination.
6. When the unit is operational, tests can be performed using the Test button on the unit or remotely using the remote with the following options.
 - Press the 5sec button to perform a 5 second test, after which the unit will return to normal operation.
 - Press the 30min button to perform a 30-minute test, after which the unit will return to normal operation.
 - Press the 60min button to perform a 60-minute test, after which the unit will return to normal operation.
 - To cancel the test command, press the 'Off' button on the device or the 'ⓘ' button on the remote tester.







Note : When activating the self-test function whether through the remote or the button on the unit the test button will have the same function.

2.2 Indicators

Indication Lights	Display	Meaning
AC 	<ul style="list-style-type: none"> - A continuous orange light - The orange light turns off 	<ul style="list-style-type: none"> - The unit is receiving a normal AC power supply. - The unit is not receiving an AC power supply.
Charge/full 	<ul style="list-style-type: none"> - A green light blinks - The green light turns off 	<ul style="list-style-type: none"> - The battery is charging. - The battery is fully charged.
Battery 	<ul style="list-style-type: none"> - A continuous green light - A green light blinks - The green light turns off 	<ul style="list-style-type: none"> - Battery voltage entering device, device ready for use. - Battery voltage nearing depletion. - Battery depleted, device stops operating while on battery backup.
Fail 	<ul style="list-style-type: none"> - A red light blinks one time every 15 seconds - A red light blinks three times every 15 seconds - A red light blinks four times every 15 seconds - A red light blinks five times every 15 seconds 	<ul style="list-style-type: none"> - "Battery Low" Warning before system stops operating on battery, accompanied by a beeping sound (Low Voltage Sound Indicator). - "Battery Fail" When the emergency light unit supply backs up the lighting for less than 120 minutes, or less than the time tested with a remote control. - "Charging fail" When the battery charging system does not charge, the charge does not reach full capacity, or the charging does not cut off. - "Lighting Fail" When the system encounters an abnormality in the lighting system, such as loose lighting cables, broken bulbs, etc.
5 sec/LDR 	<ul style="list-style-type: none"> - A continuous red light - A red light blinks - The red light turns off 	<ul style="list-style-type: none"> - The device is currently selecting to use the Light Detector function. - Perform a battery test while the unit is still receiving an AC power supply. - Cancel battery test. Cancel Light Detector function.
30 mins 	<ul style="list-style-type: none"> - A red light blinks - The red light turns off 	<ul style="list-style-type: none"> - Perform a battery test while the unit is still receiving an AC power supply - Cancel the battery test
60 mins 	<ul style="list-style-type: none"> - A red light blinks - The red light turns off 	<ul style="list-style-type: none"> - Perform a battery test while the unit is still receiving an AC power supply - Cancel the battery test
Auto Test 	<ul style="list-style-type: none"> - A continuous green light - The green light turns off 	<ul style="list-style-type: none"> - Turn on the automatic battery test - Turn off the automatic battery test

2.3 Remote testing operation



-  ► Button for testing the device's function for 5 seconds
-  ► Button for testing the device's function for 30 minutes
-  ► Button for testing the device's function for 60 minutes
-  ► Button for turning on auto battery test system
-  ► Button for turning off auto battery test system
-  ► Button for canceling the test

Part 3

Application installation and usage

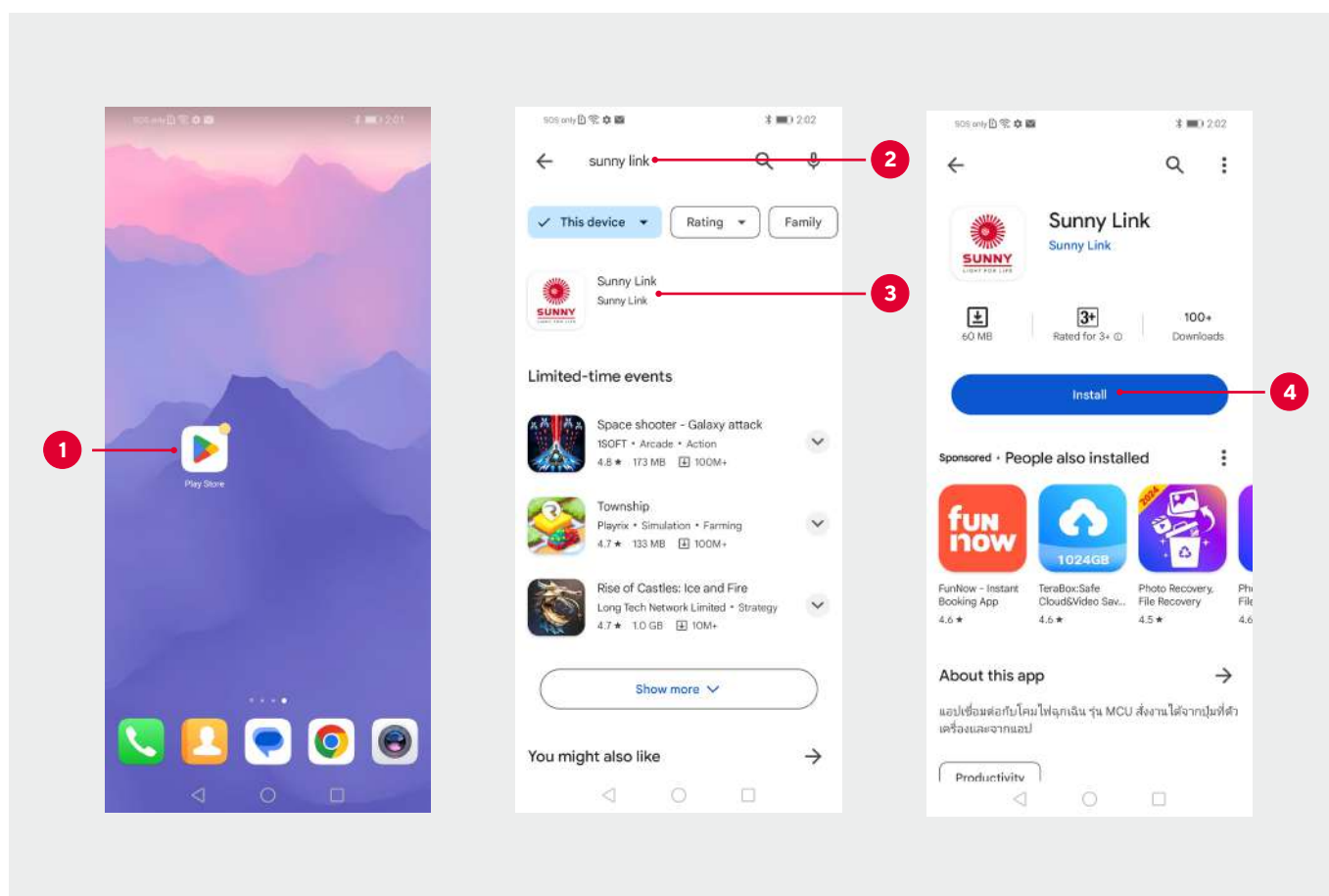
3.1 Application Installation

The Sunny Link app can be downloaded via 2 channels as follows:

- Google Play Store
- App Store

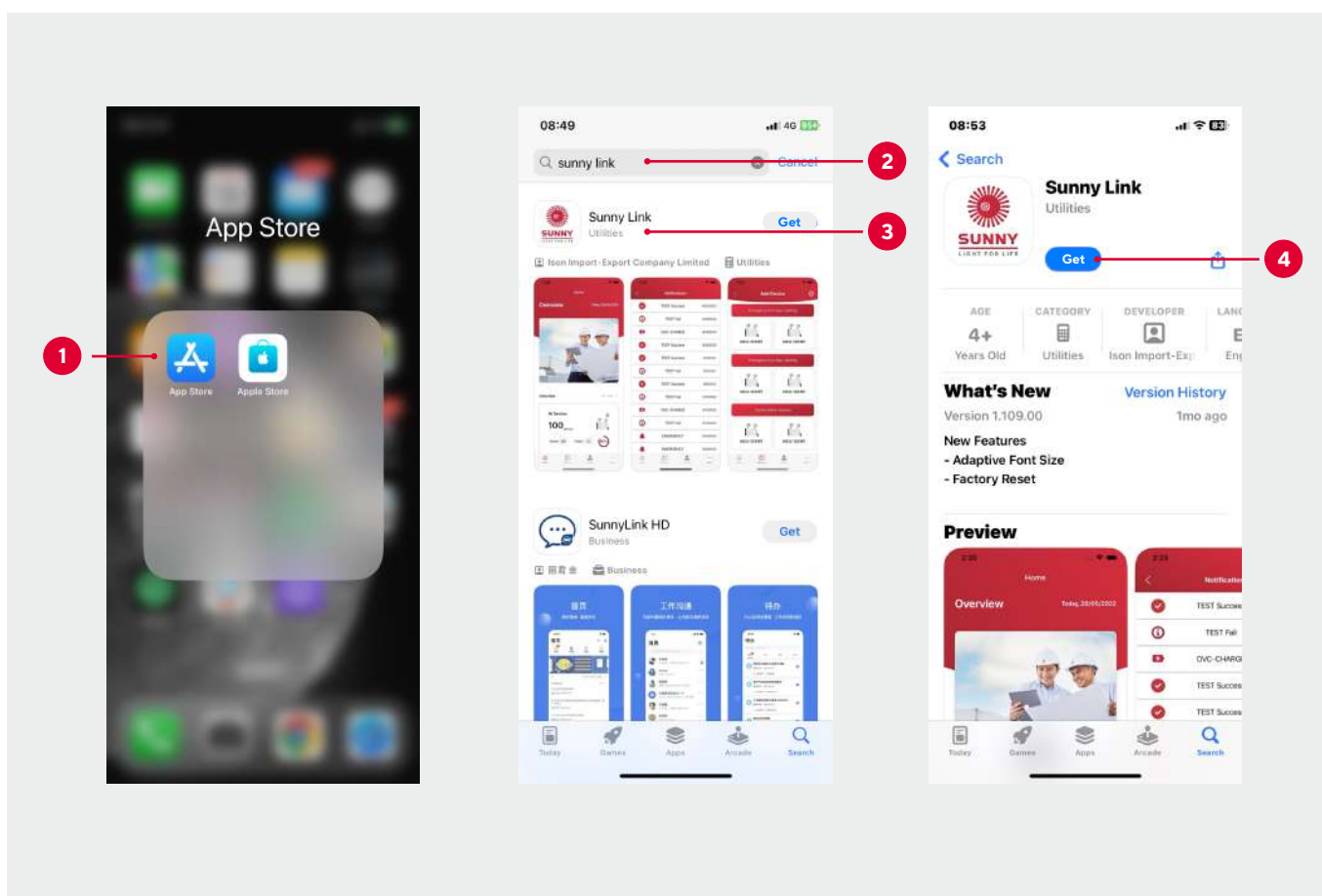
Google Play Store

Open the Play Store app on your mobile by tapping the Play Store icon "1". Tap the search box at the top and enter "Sunny Link" "2". Select the Sunny Link app "3". On the next screen, there will be a button to download the app. Tap the "Install" button "4".



App Store

Open the App Store app "1" on your mobile by tapping the App Store icon. Tap the magnifying glass icon in the bottom right corner and enter "Sunny Link" in the top search box "2". Select the Sunny Link app "3". On the next screen, there will be a button to download the app. Tap the "GET" button "4".

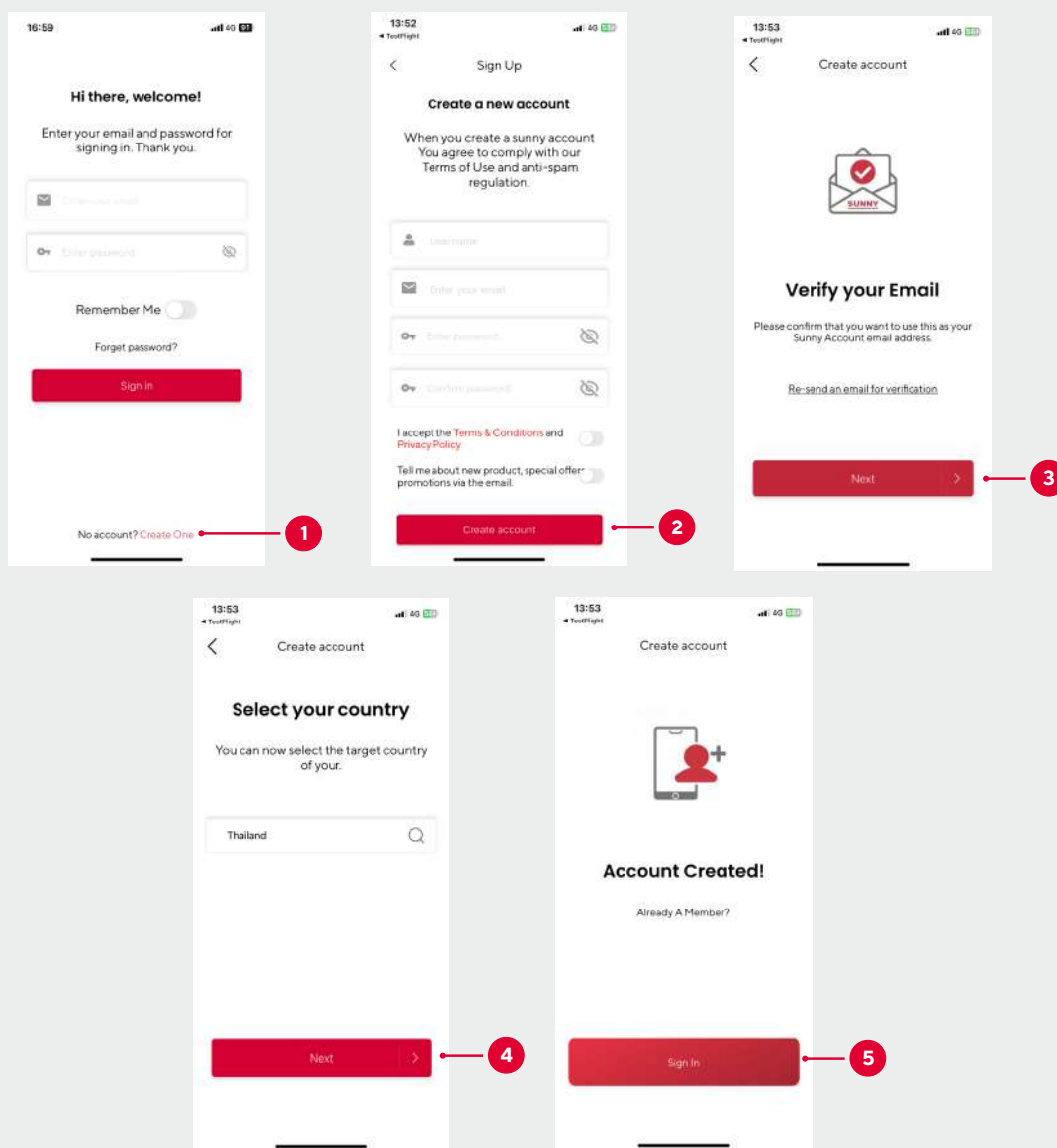


3.2 Getting Started with the Application

3.2.1 Creat an Account

New users need to create an account by following these steps:

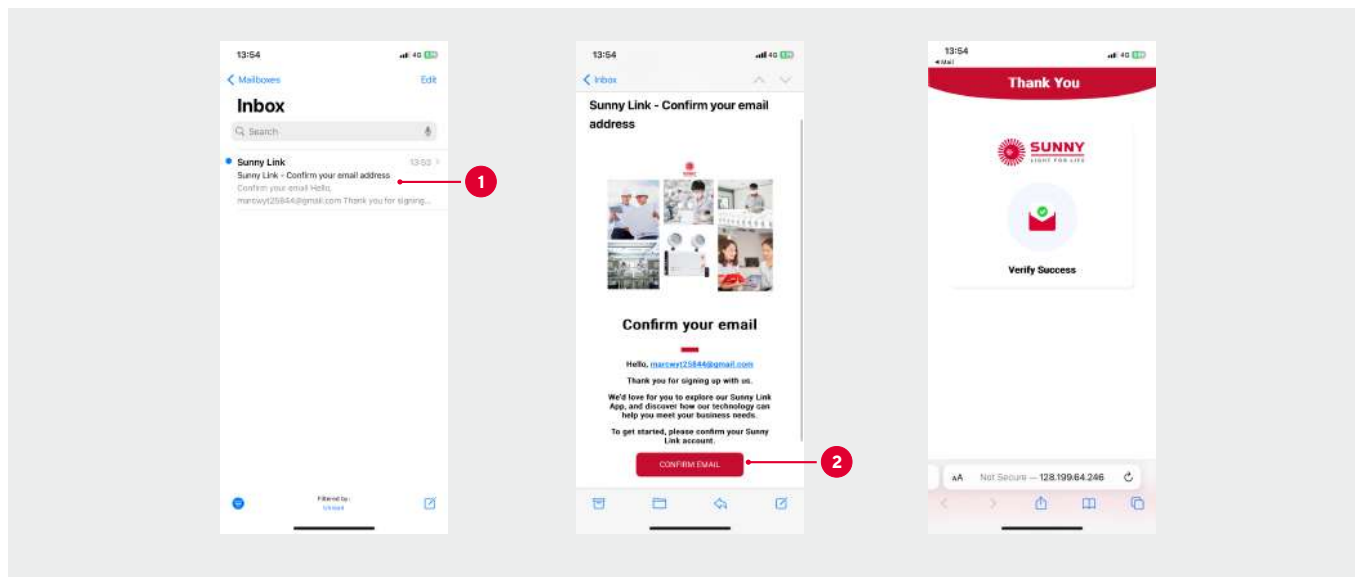
1. Open the Sunny Link app, you will see the sign-in screen. Tap the "Create One" button "1".
2. The screen will show the Sign Up page.
 - Enter your username, email address, and password.
 - Select to accept the Terms & Conditions and Privacy Policy.
 - Tap on the 'Create Account' button. "2"
3. The Sunny Link app will send you an email to verify your identity. Tap the "Next" button "3".
4. Select the user's country and tap on the 'Next' button. "4"
5. Account creation successful. Tap the "Sign In" button "5" to go to the sign-in page.



3.2.2 Confirm Email Address

To access the application, users must verify their email address as follows:

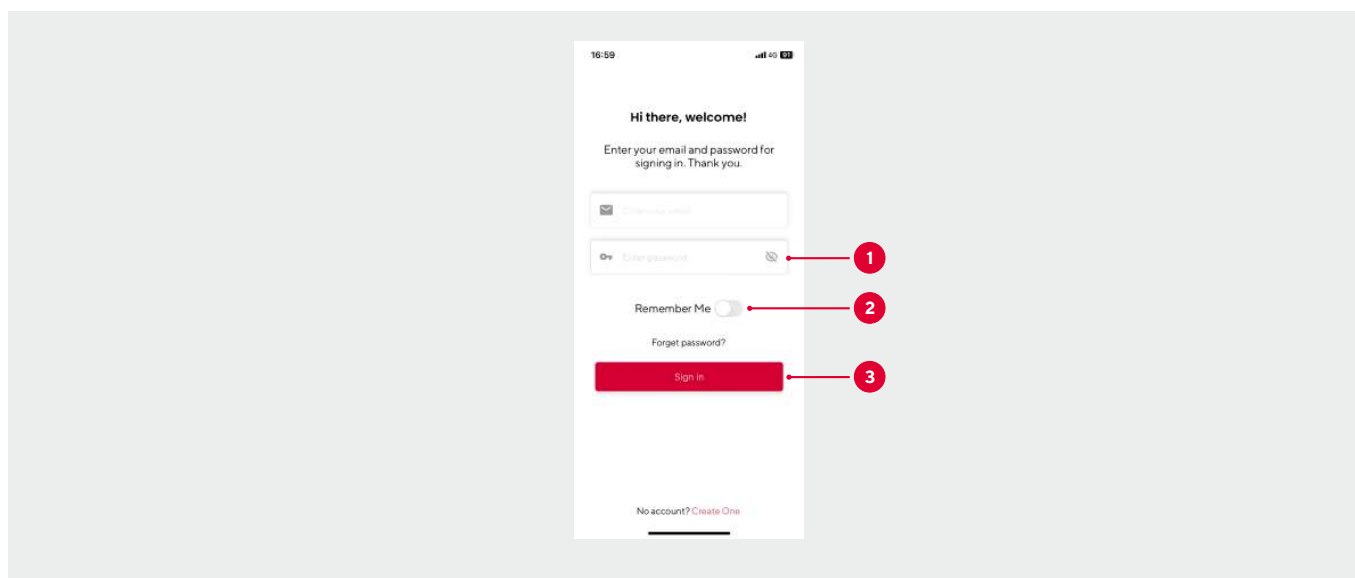
1. Go to your email inbox and select the "Sunny Link - Confirm your email address" email "1".
2. Confirm your email address by tapping the "CONFIRM EMAIL" button "2".
3. You will see a confirmation that your email is verified. You can now sign in to your account.



3.2.3 Sign In

Steps for signing in:

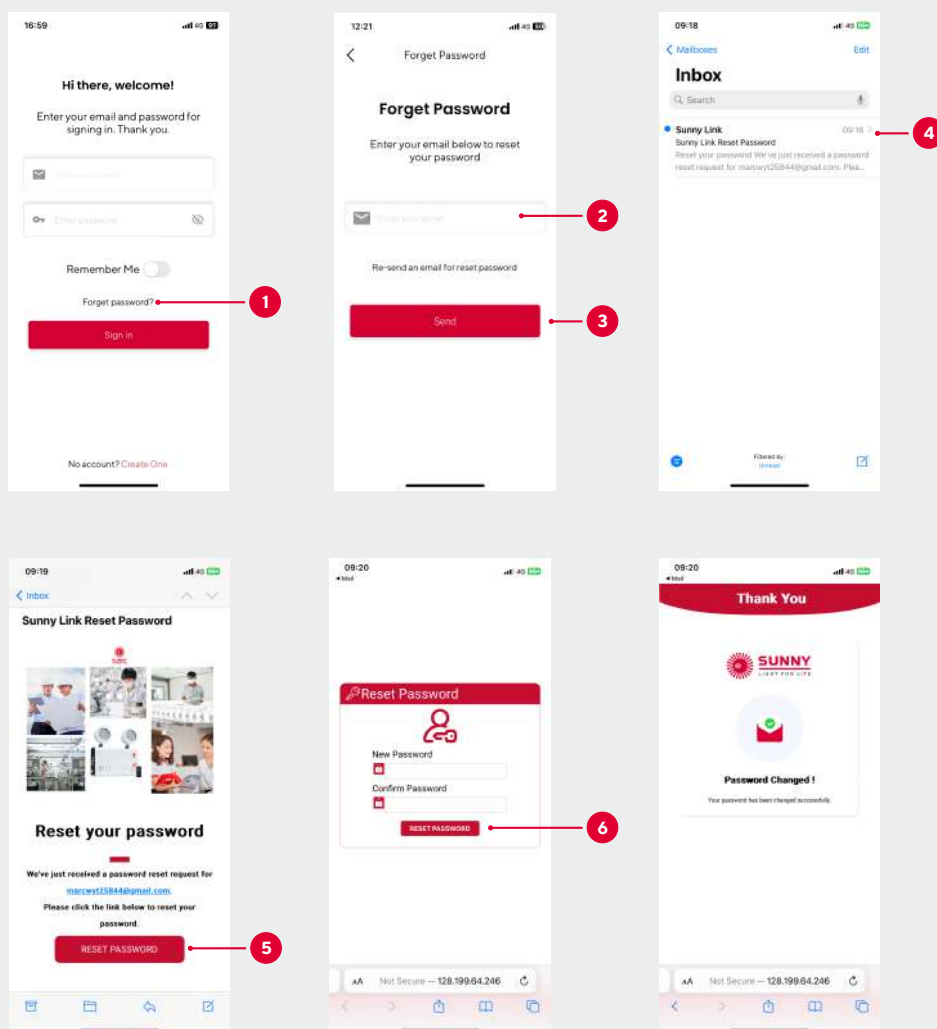
1. Enter your account email and password.
To reveal the password, tap "1".
2. Select "Remember me" "2" if you want to automatically sign in next time.
3. Tap on the 'Sign In' button "3" to access.



3.2.4 Forgot Password

In case a user forgets their account password, follow these steps:

1. Tap on the "Forget password?" button. " 1 "
2. On the Forget Password page, users should enter their email account name " 2 ".
3. Tap "Send" " 3 " to request an email to reset your password.
To resend, tap "Re-send an email for reset password".
4. Go to your email inbox and select the "Sunny Link Reset Password" email " 4 ".
5. Tap on the "RESET PASSWORD" button. " 5 "
6. You will see the Reset Password page.
 - Enter a new password for accessing the account and enter the password again for confirmation.
 - Tap on the "RESET PASSWORD" button. " 6 "
7. After resetting, you can sign in with the new password.



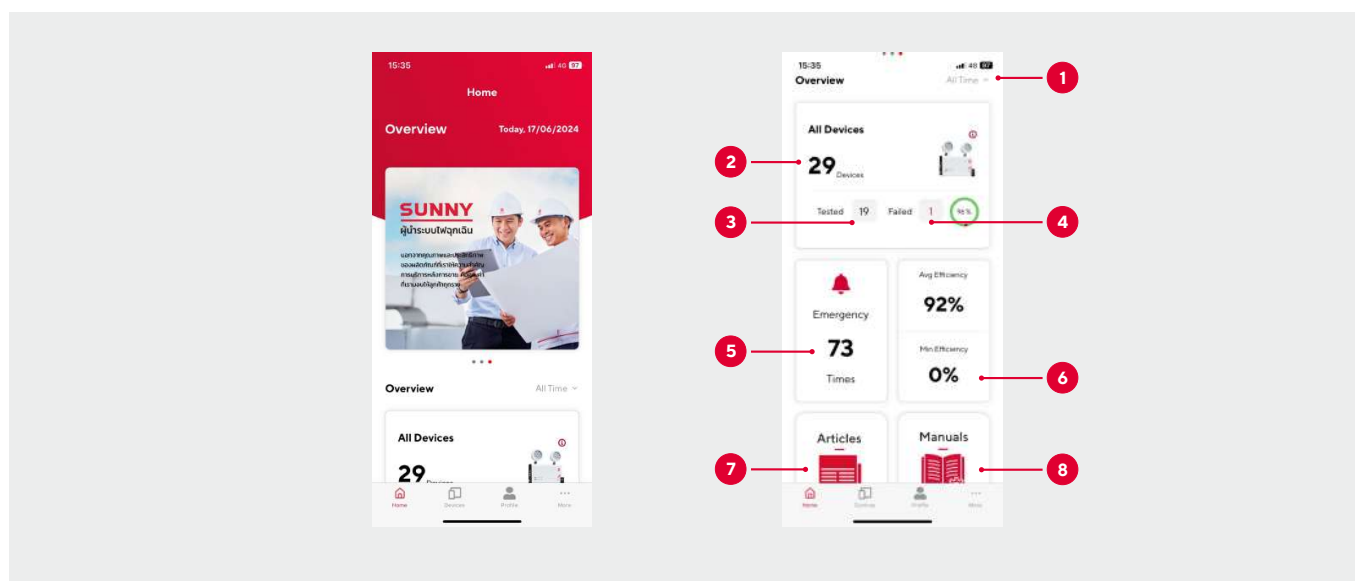
3.3 Application Usage

3.3.1 Home Page

3.3.1.1 Overview

Consists of the following device details:

1. Time range filter to display values " 1 "
2. Total number of devices in user's account " 2 "
3. Number of devices that have been tested " 3 "
4. Number of devices with issues, and ratio to total devices " 4 "
5. Total power outages for all devices (from device status sync) " 5 "
6. Average and minimum battery efficiency percentages " 6 "
7. Display of interesting social articles and activities " 7 "
8. Collection of downloadable user manuals for all products " 8 "



3.3.2 Devices Page

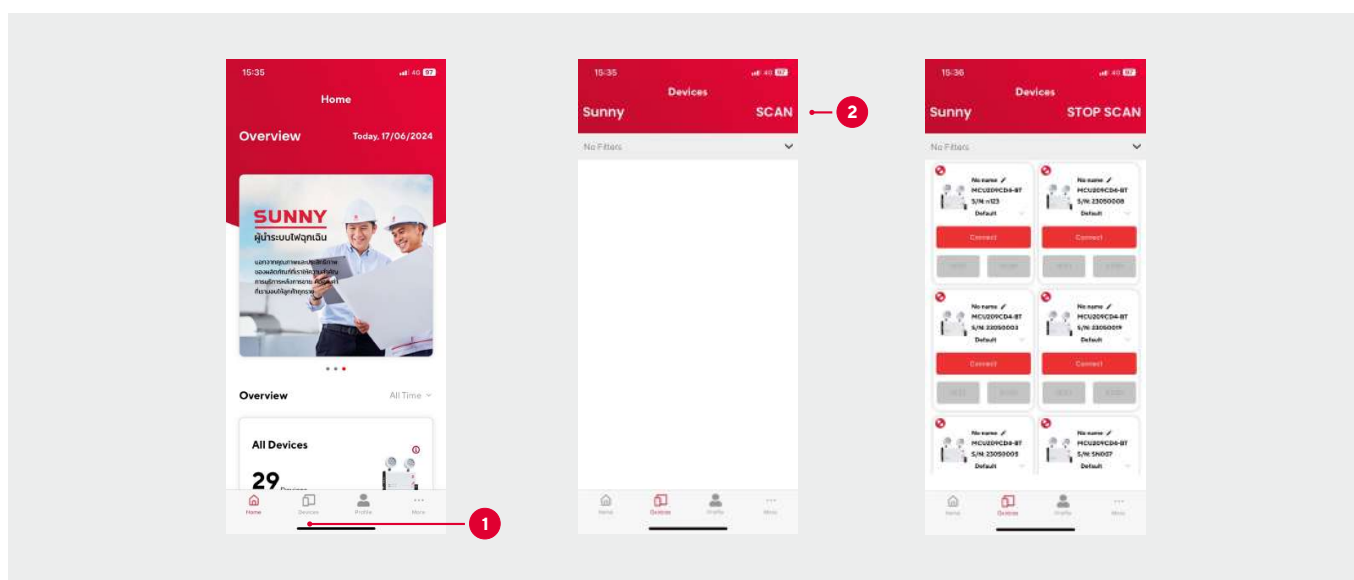
3.3.2.1 Device Search

To use the device interface, users need to enable the following functions on their mobile phone:

1. Internet connection
2. Bluetooth connection
3. Location services

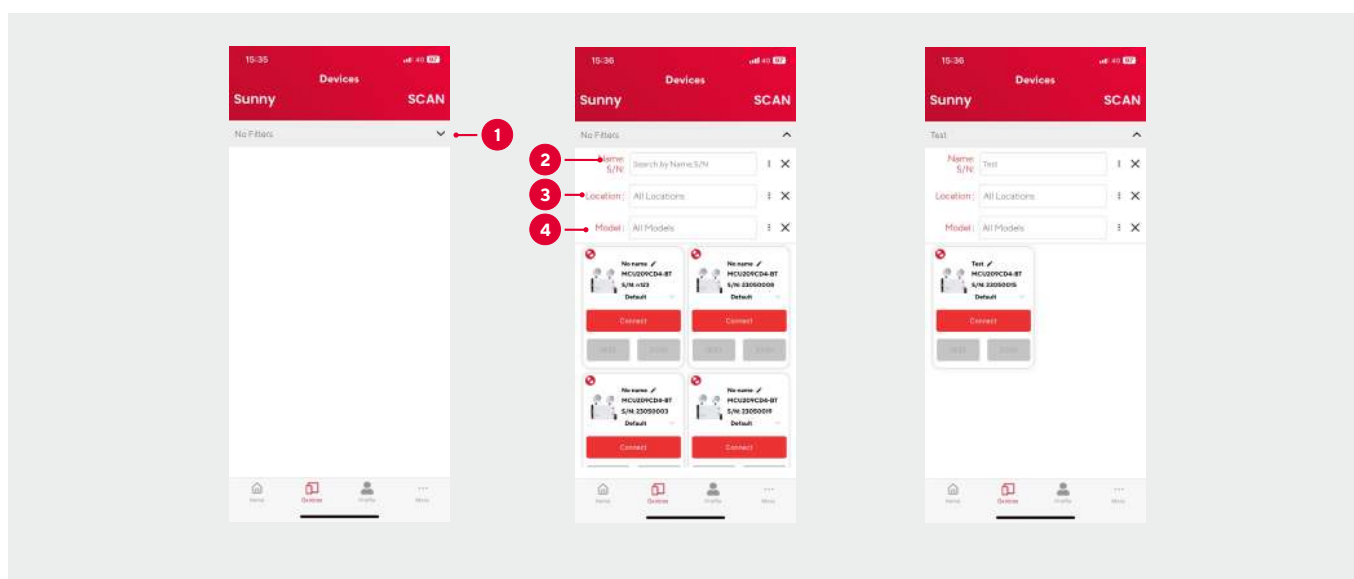
The steps for searching for devices are as follows:

1. Tap on the device icon to navigate to the device page "1".
2. Tap on the 'SCAN' button "2".
 - Button changes to "STOP SCAN" to stop scanning, tap again
 - Scanning takes around 4 seconds
3. Nearby devices appear as device cards



Filter device card display by:

1. Tap button "1" to open filter bar
2. Enter device details to display, divided into 3 sections
 - Device name and number "2"
 - Device location "3"
 - Device model "4"
3. Only matching device cards shown



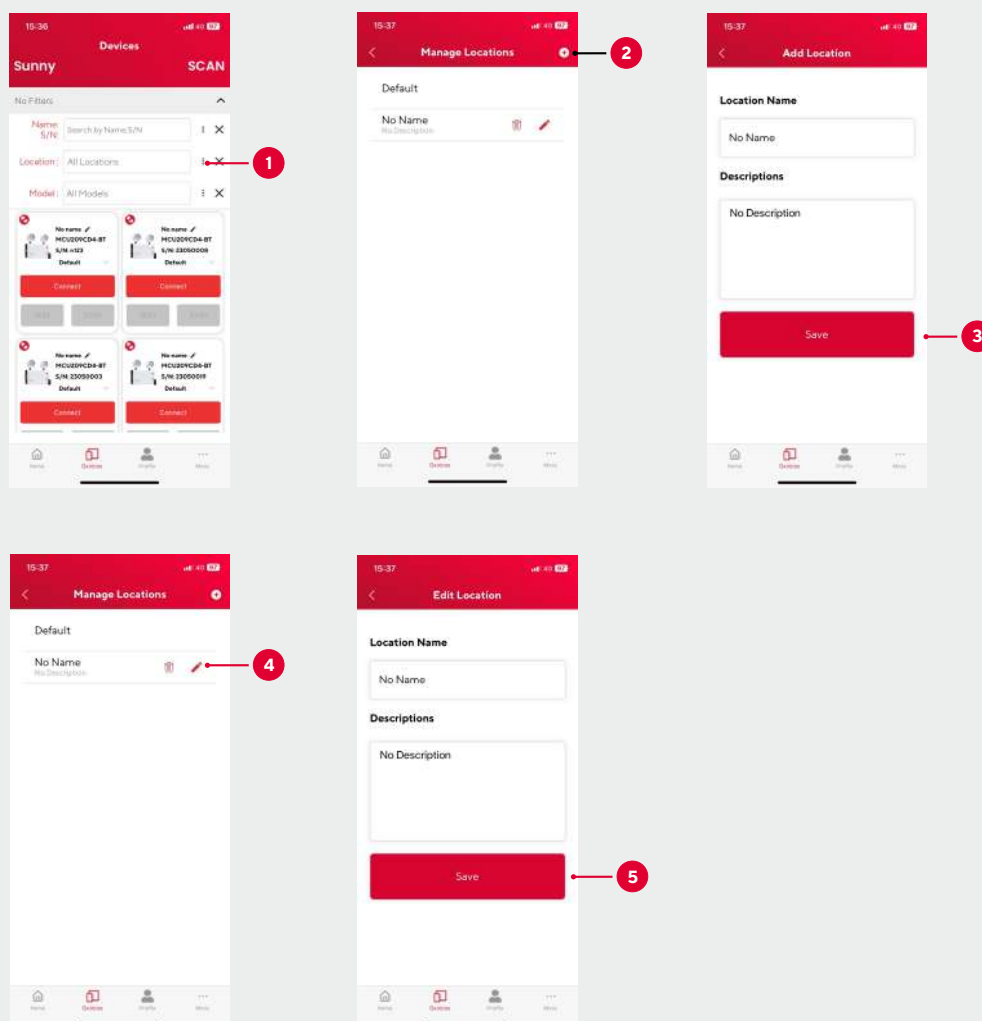
3.3.2.2 Device Location

Assign device locations for easier management:

1. Tap the location filter button "1" to go to the location management page
2. You can manage device locations as needed on this page
3. Add Location
 - To add a new location, tap the icon "2" in the top right of the locations page, then go to the add location page
 - Enter the name and description for the new location you want to add, then tap the "Save" button "3"
4. Edit Location

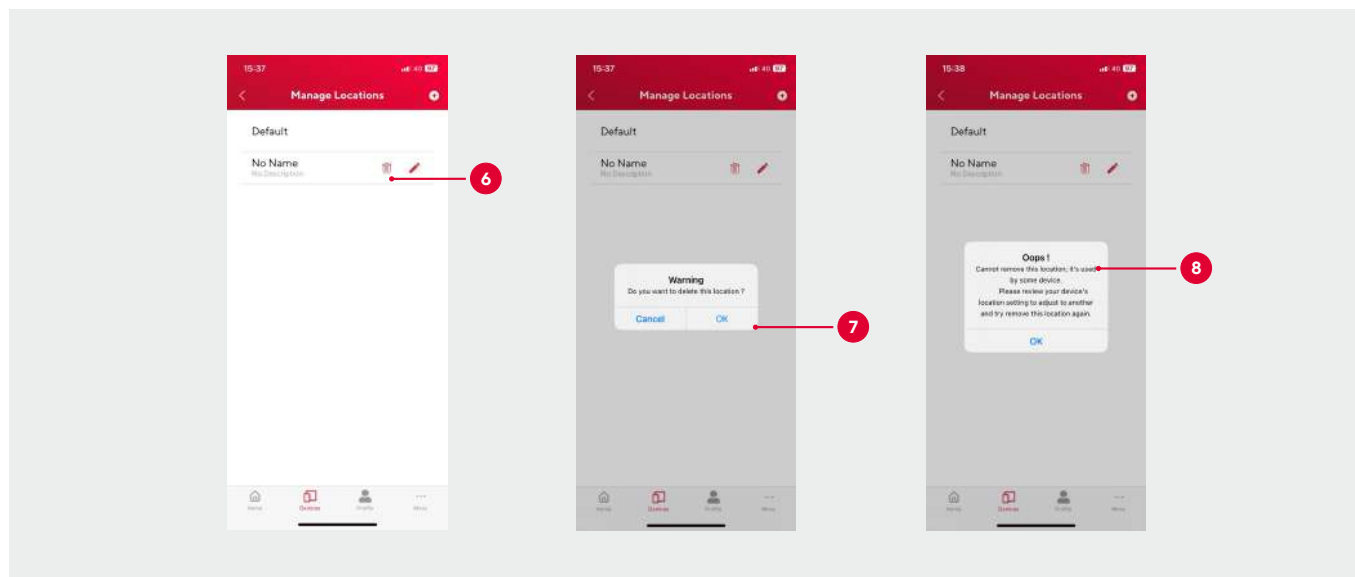
The default starting location is preset and cannot be edited.

- To edit a location, tap the icon "4" next to the location you want to edit, then go to the edit location page
- Enter the name or description changes for the location you want to edit, then tap "Save" "5"



5. Delete Location

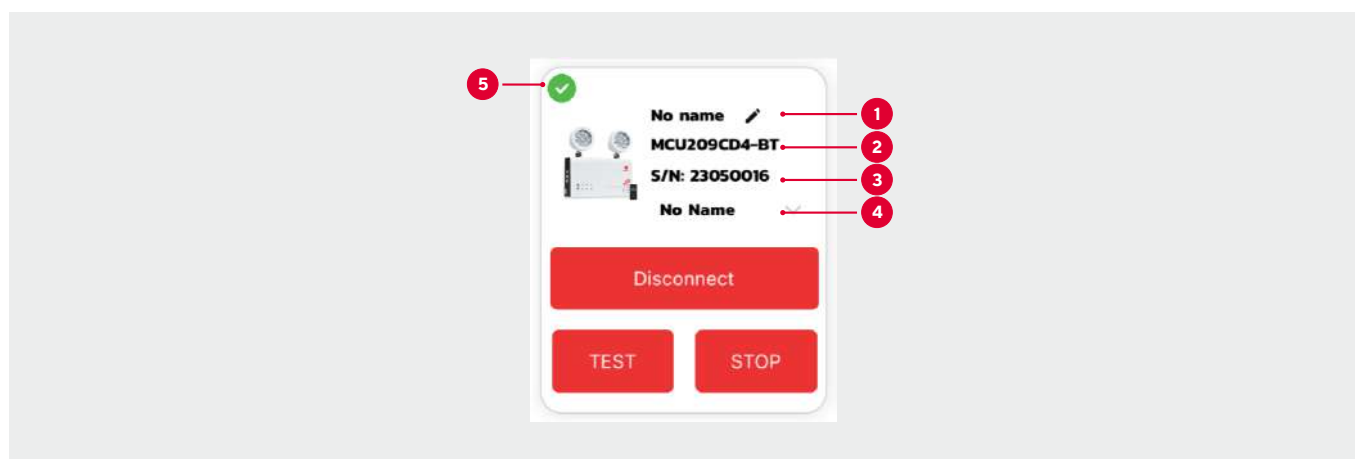
- To delete a location, tap the icon "6" next to the location you want to remove
- Select to confirm you want to delete the location, after which it will be removed from the list "7"
- Locations that are currently in use at that time cannot be deleted "8"



3.3.2.3 Device card

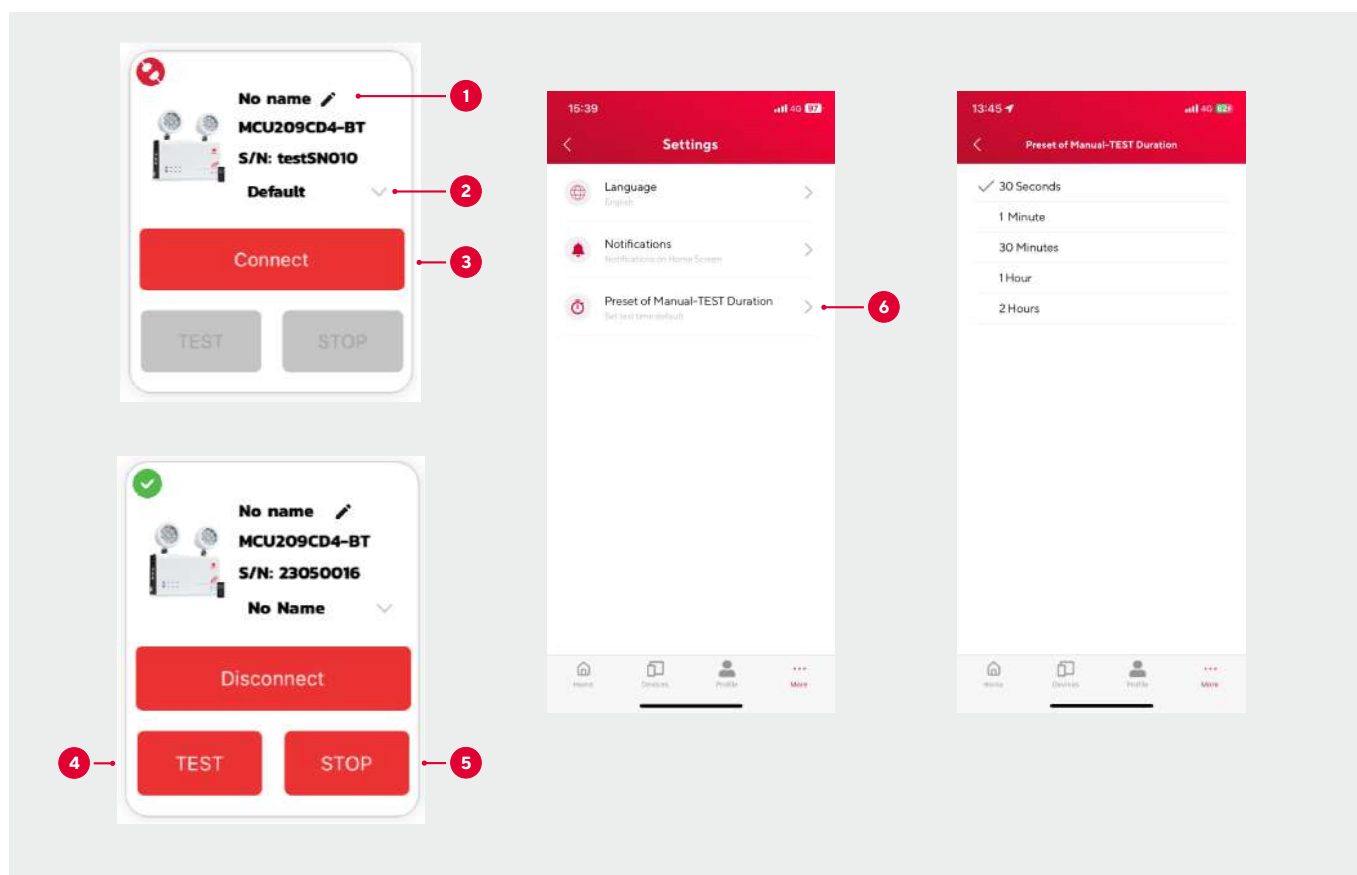
Device cards are used to display various details of the devices, including:

1. Name
2. Model
3. Serial Number
4. Location
5. An icon that shows the connection status of the device
 - Not connected
 - Connected successfully
 - Connection failed



Activities that can be performed on the device cards include:

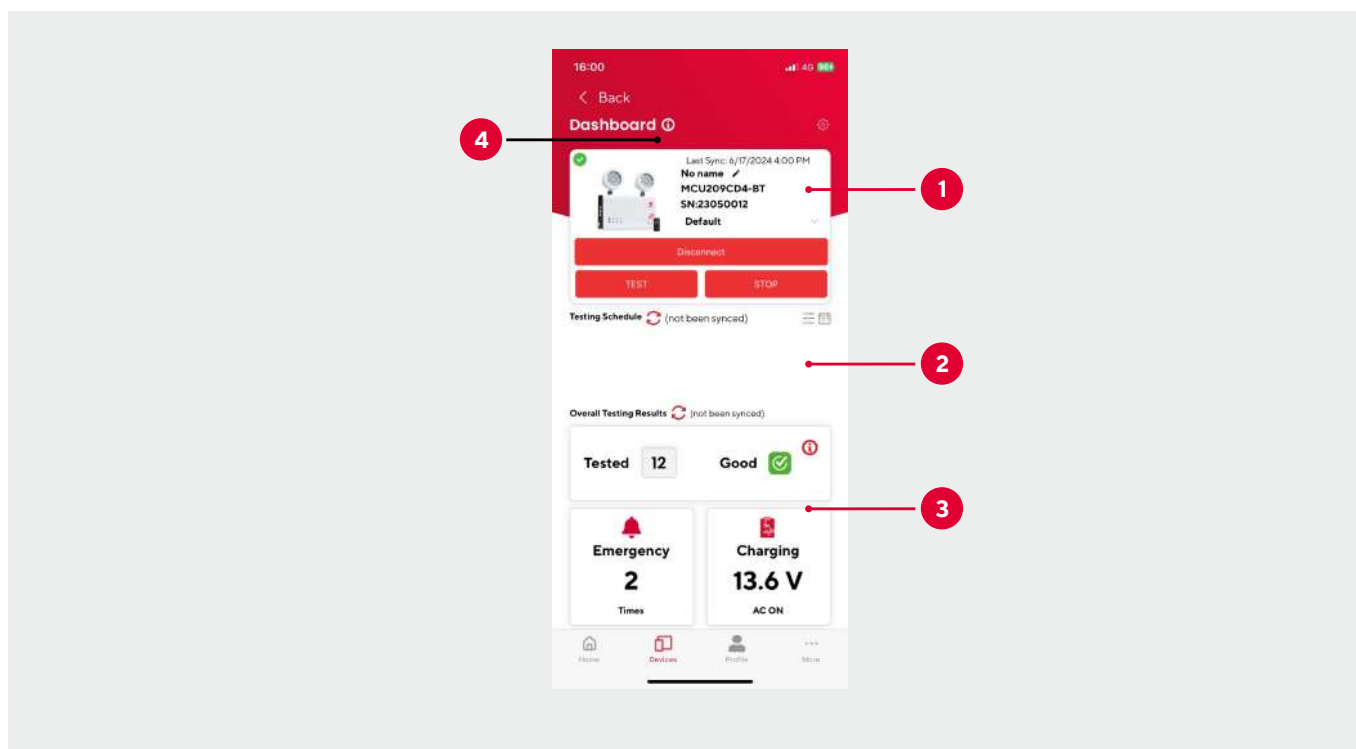
1. Set or edit the name of the device by tapping on icon "1".
2. Set the location of the device by tapping the icon "2".
3. Connect to the device by tapping the "CONNECT" button "3".
 - Devices that are already connected cannot connect to other user accounts unless a factory reset is performed first to disconnect it
4. After successfully connecting to a device, you will be allowed to operate it
 - The "TEST" button "4" is for testing the device's light
 - The "STOP" button "5" is for stopping the light test on the device
5. You can set the emergency light test duration in the "Default test duration for TEST button" setting "6".



3.3.3 Device Control Page (Dashboard)

The device control page or dashboard consists of three sections:

1. Device card " 1 "
2. Testing Schedule " 2 "
3. Overall Testing Results " 3 "
4. You can access the usage guide by tapping the icon " 4 "



Whenever entering the device control page, the system will automatically real-time sync with the device, taking around 4 seconds, after which the relevant sections will display

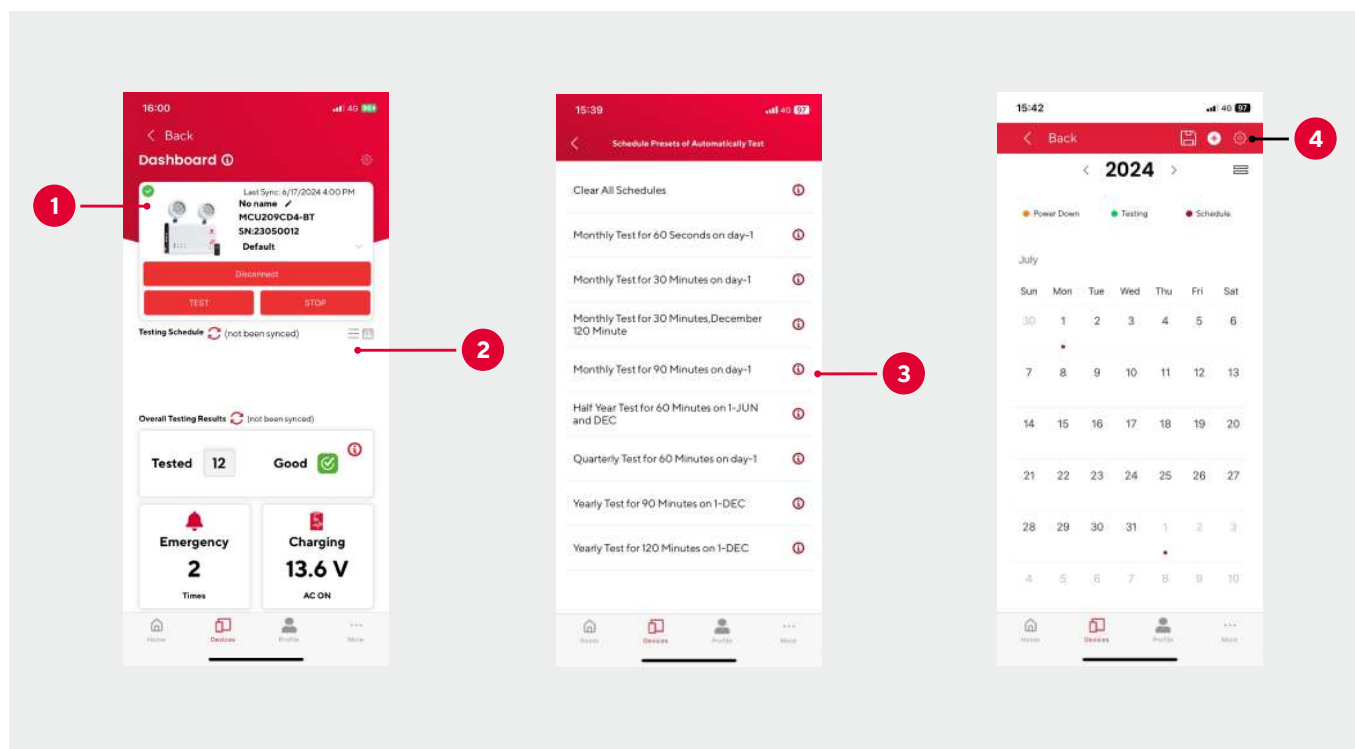
The Testing Schedule section displays test schedule cards that are logged/stored in the device. These test schedule cards will be shown after either a real-time sync with the device or a sync specifically to fetch the device's testing schedules.

The Overall Testing Results section is an area that displays the number of tests or power outage events for the device, as well as various statuses of the device. When there is a device status synchronization, the relevant sections will be updated to show the synced information.

3.3.3.1 Automatic device testing schedule presets

Presets or preset settings of automatic test devices are schedules that are added or set in advance for convenience of use. The usage steps are as follows:

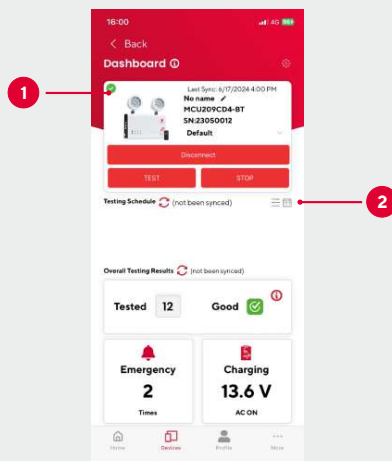
1. To use presets, you need to connect to the device first "1".
2. Then tap the "2" icon at Testing Schedule to go to the automatic test schedule preset page.
3. Select the automatic test schedule preset you want to use, or clear all automatic test schedule entries.
4. Standard preset entries will be set, you can view details of each entry by tapping the "3" icon.
5. You can add custom preset entries to set your own test schedules by following the steps for saving test presets.
6. Alternatively, tap the "4" icon on the calendar page to also access the automatic device test preset page.



3.3.3.2 Automatic device testing

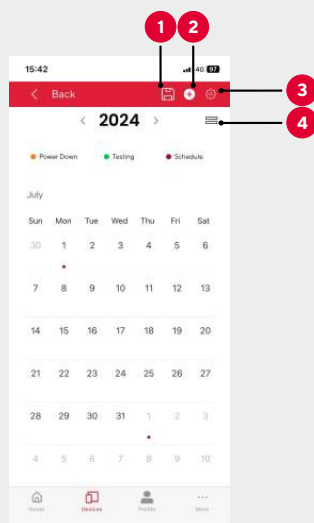
The automatic test schedule is displayed in a calendar format for convenient and easy to understand usage. The usage steps are:

1. To use the test schedule, you need to connect to the device first "1".
2. Then tap the "2" icon at Testing Schedule to go to the calendar page.



The calendar page consists of icons for various functions:

1. The icon "1" for saving automatic device testing presets
2. The icon "2" for adding automatic device testing
3. The icon "3" for automatic device testing schedule presets
4. The icon "4" or tapping on the date on the calendar to view events.

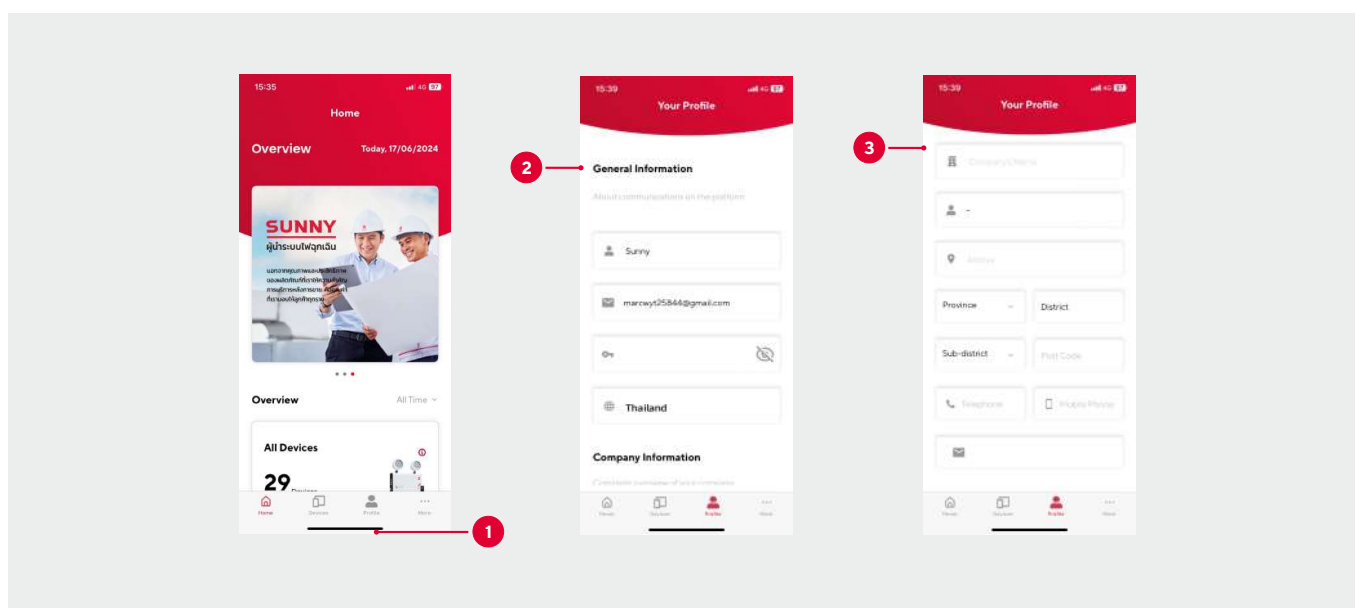


3.3.4 Profile

Tap the profile icon to go to your profile page " **1** ".

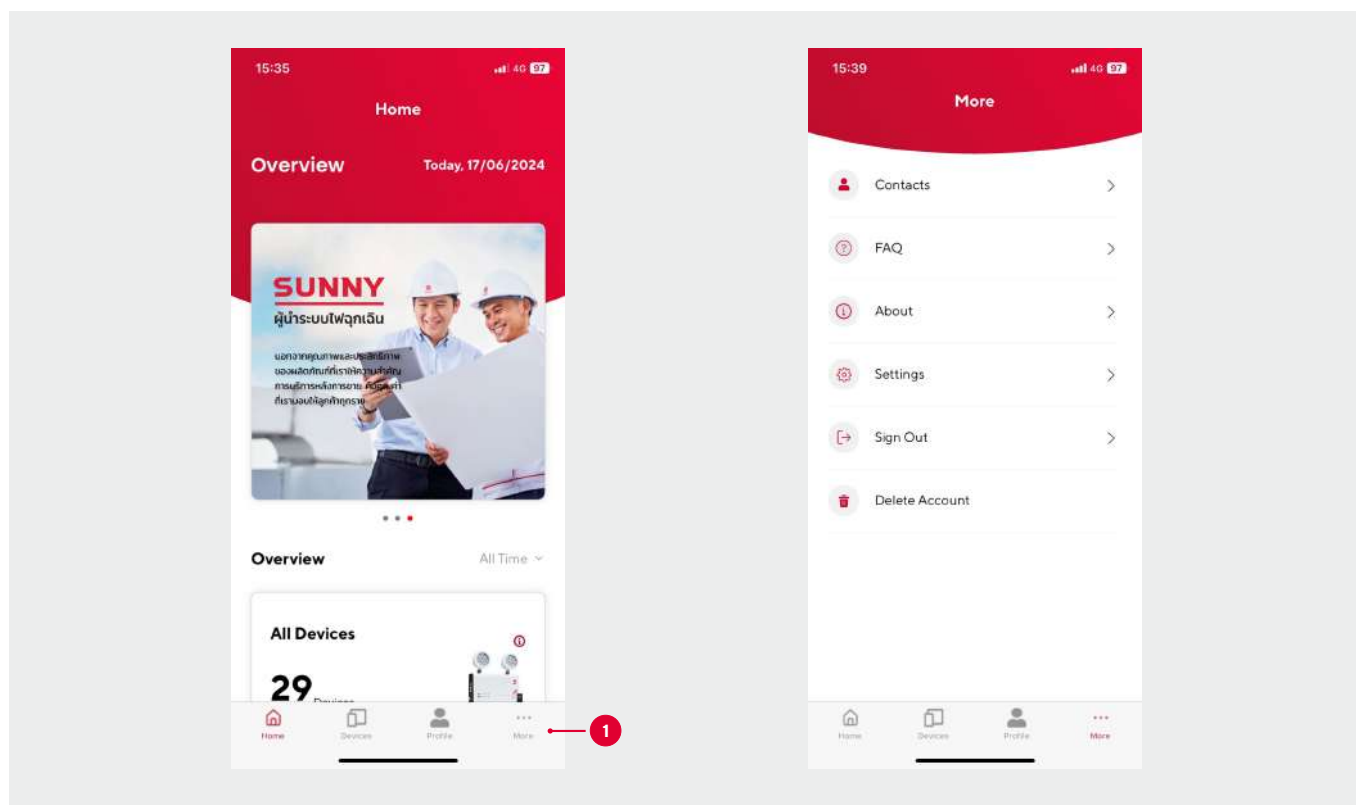
The profile page is divided into two sections to manage and customize account information:

1. General information includes " **2** "
 - Username
 - Password
 - Country
 - Email Address (not editable)
2. Company information includes " **3** "
 - Company Name
 - Contact Person
 - Company Address
 - Phone Number
 - Email Address



3.3.5 More

Tap more icons to go to more pages "1"





3.3.5.1 Contact Us

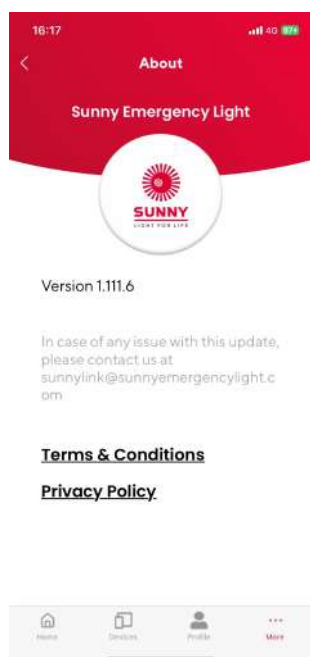
You can contact us to request services based on the information provided above.



3.3.5.2 Frequently Asked Questions

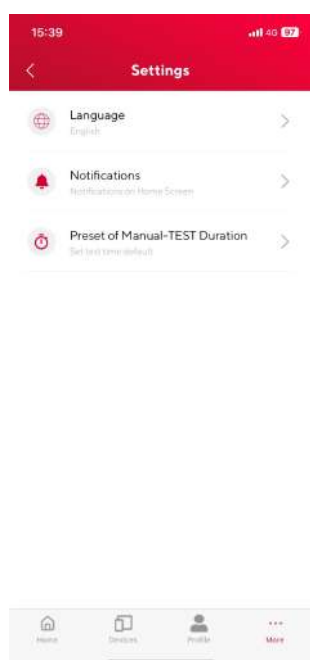
You can find solutions or answers to frequently encountered issues related to the product including battery-related questions.

This resource is designed to help you find answers without needing to request direct support or contacting customer service for a more convenient app experience.



3.3.5.3 About Us

Presents information about the app version number, terms and conditions, and privacy policy to provide transparency and in-depth information about the app's purposes.



3.3.5.4 Settings

The settings that users can customize and adjust include:

1. Language
2. Notifications
3. Default test duration for the TEST button.



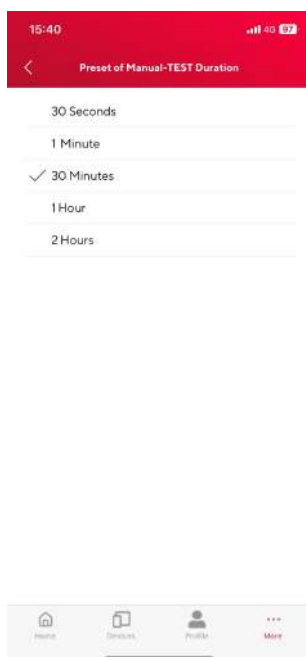
1.Language

The in-app language selection setting has two language options: English and Thai.



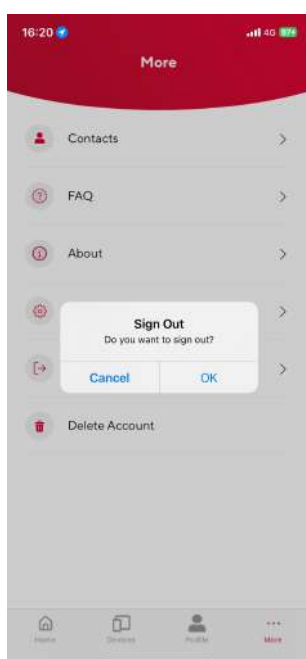
2.Notifications

Used to display various event information to the user, including device information, model, serial number, status, and time of status occurrence. The latest notification will be shown on the top line when a status occurs and device status is synchronized.



3.Default test duration for the TEST button.

Used to set the duration the user wants when manually testing the device light by pressing the TEST button on the device card.



3.3.5.5 Log Out

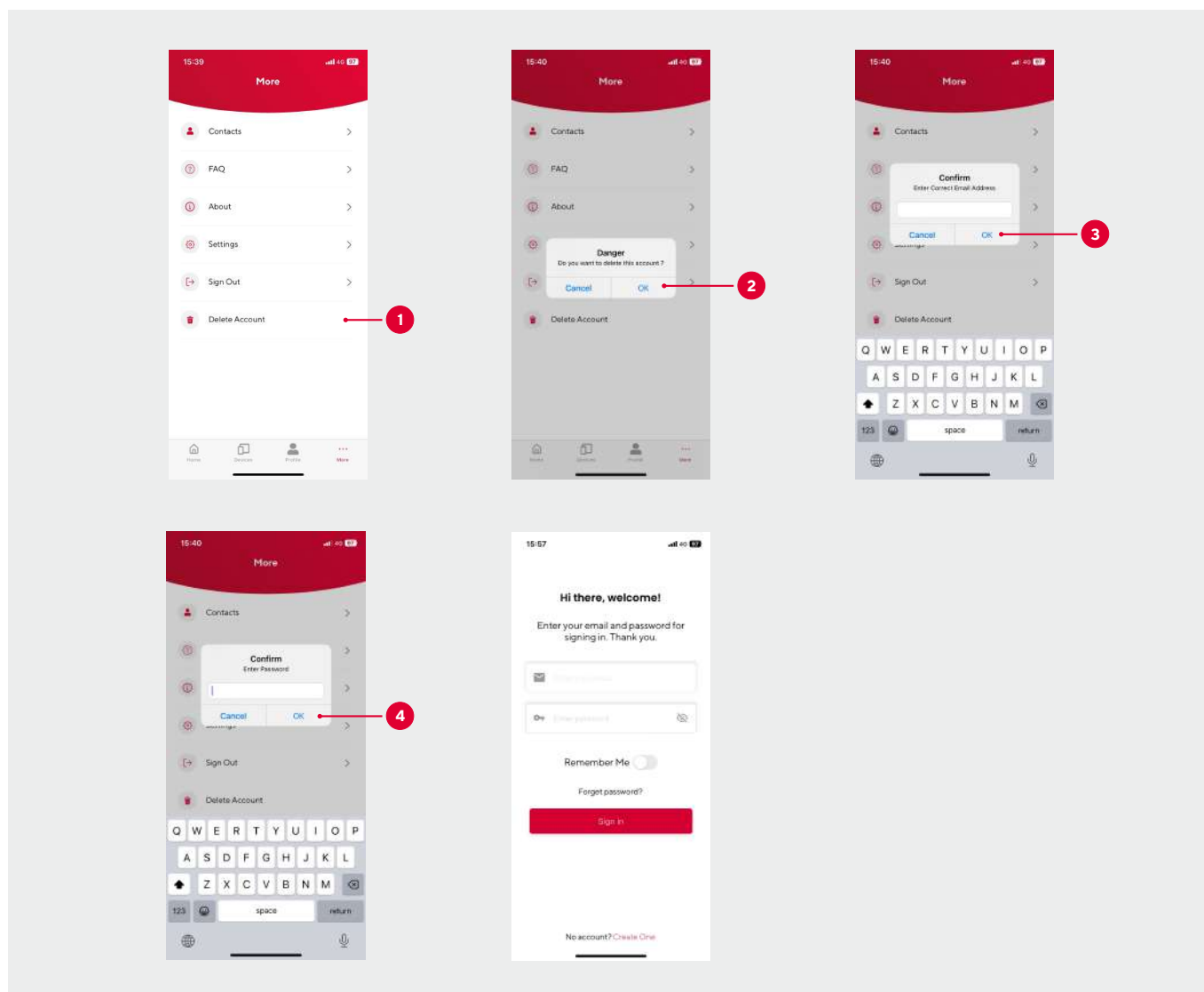
Logging out of your account is an important measure to maintain account security and privacy for users. It effectively prevents unauthorized access to the user's account and related data.

3.3.5.6 Delete Account

Deleting an account permanently removes the user's account and all associated data from the application. It's crucial to understand that this action is irreversible, resulting in the complete loss of all account-related data.

The steps to delete an account are as follows:

1. Tap on 'Delete Account " 1 "'
2. Confirm your desire to delete " 2 "'
3. Please enter your email account name " 3 "'
4. Please enter your account password " 4 "'
5. After deleting the account, return to the Sign In page.

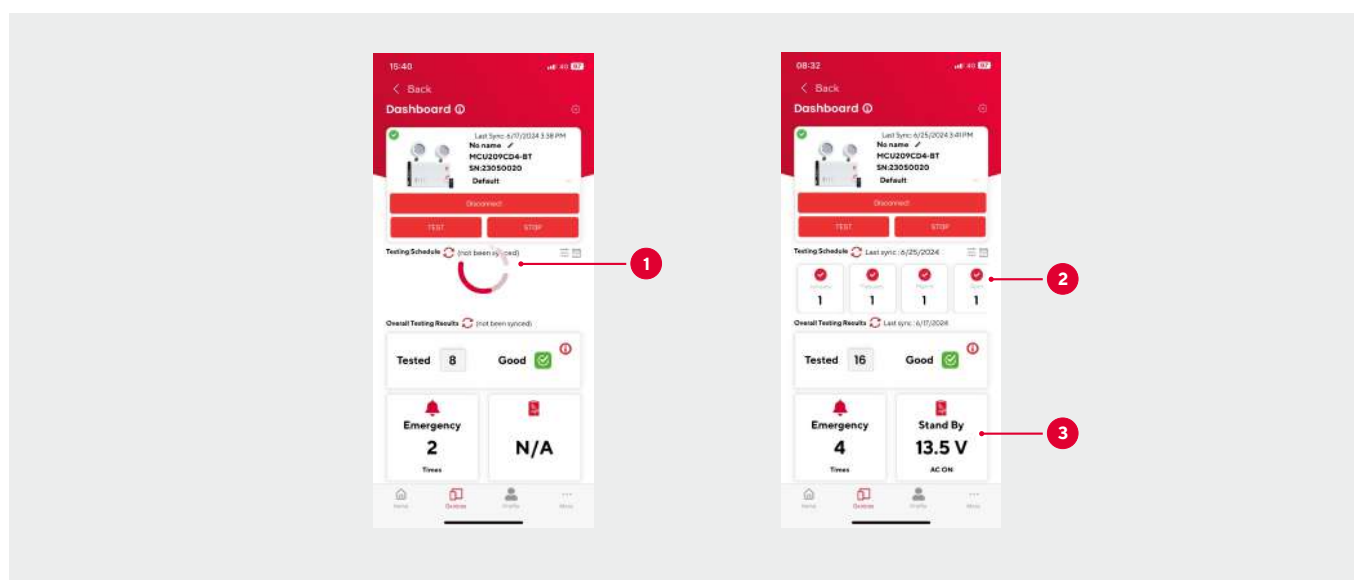


3.4 Synchronization

3.4.1 Real-time Synchronization

The real-time synchronization will automatically occur every time you access the device control page or dashboard. The process works as follows:

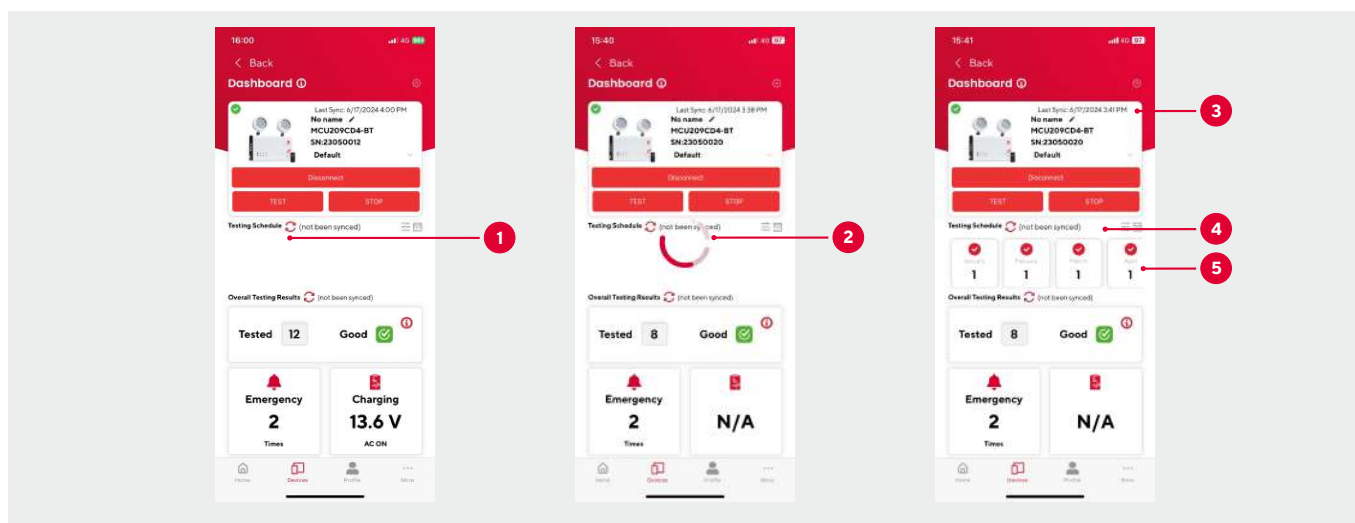
1. When entering the Dashboard page, a synchronizing icon will appear, taking 4 seconds " **1** ".
2. Display test card data (if the device has a testing schedule) " **2** ".
3. Display various statuses of the device, including " **3** ":
 - Device abnormal status
 - Operational status
 - Battery voltage
 - AC power status



3.4.2 Synchronizing the testing schedule

The synchronization schedule for testing is as follows:

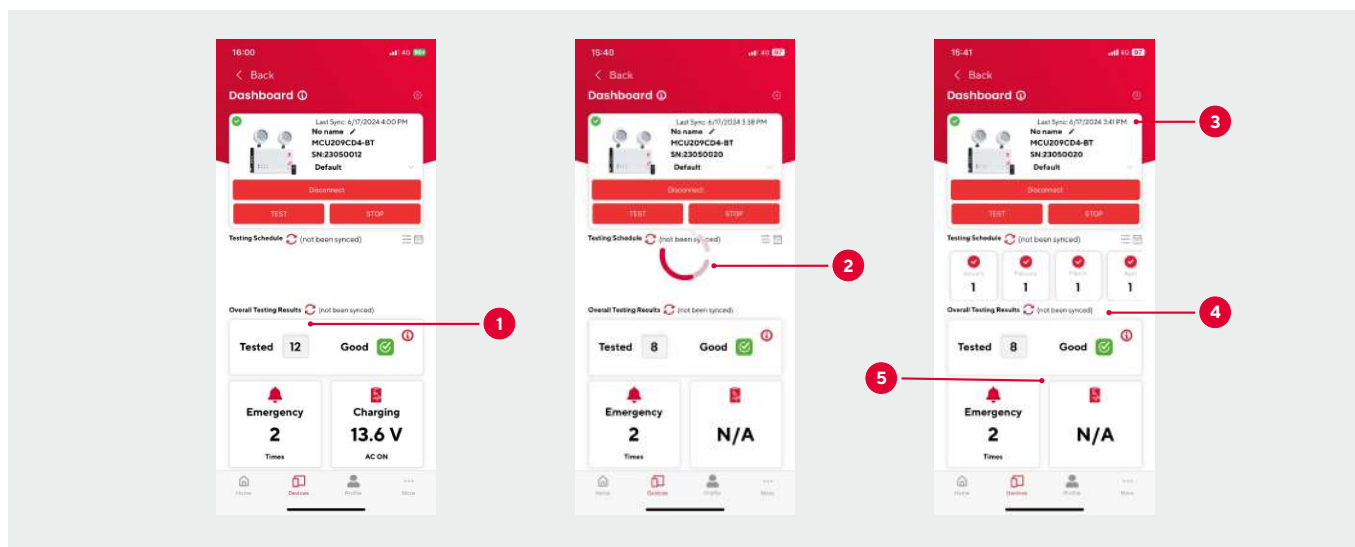
1. Tap on icon "1" for Testing Schedule.
2. A synchronizing icon will appear, taking 4 seconds "2".
3. A symbol indicating the date and time of the last testing schedule sync is shown at the top right of the device card "3".
4. The symbol indicating the date of the last sync is displayed next to icon "4".
5. Display test card (if the device has a testing schedule) "5".



3.4.3 Synchronize device status.

Synchronize device status with the following steps:

1. Tap on icon "1" for Testing Overall Testing Results
2. The syncing symbol is displayed, taking 35 seconds." 2 "
3. A symbol indicating the date and time of the last sync is shown at the top right of the device card " 3 ".
4. The symbol indicating the date of the last device status is displayed next to icon " 4 ".
5. Displays the number of times the device has been tested (Tested) and experienced a power outage (Emergency), as well as other statuses that have occurred, shown on the various dates on the calendar page " 5 ".



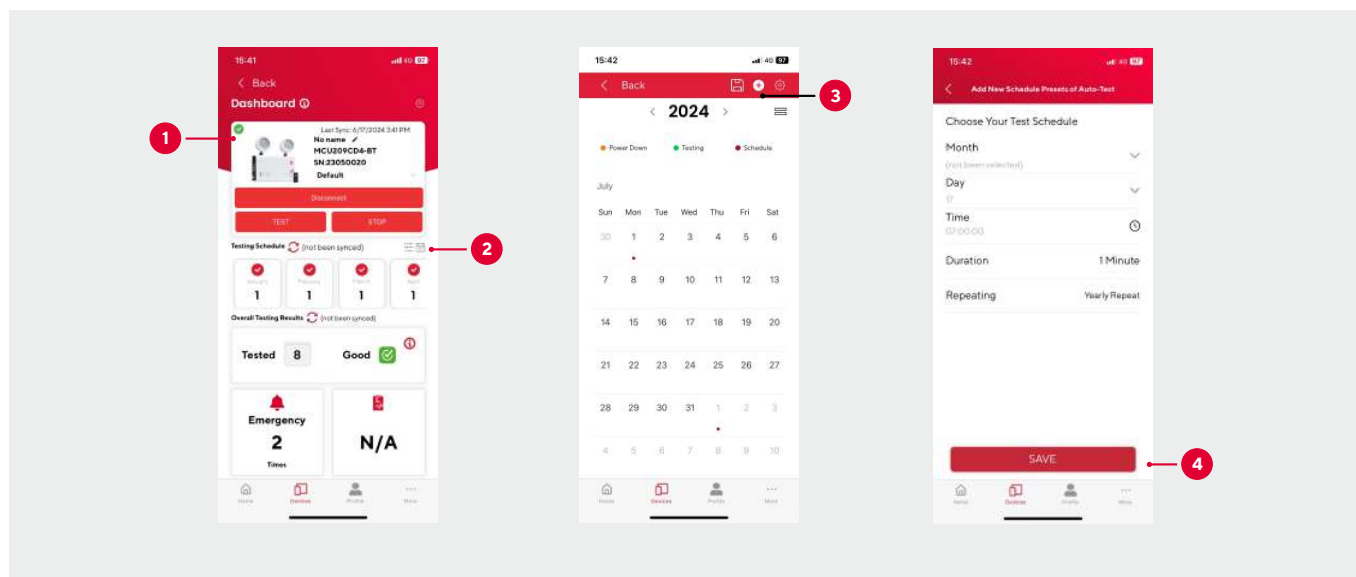
3.5 Application Usage Functions

3.5.1 Automatic device testing

3.5.1.1 Add automated testing feature.

To add a test schedule:

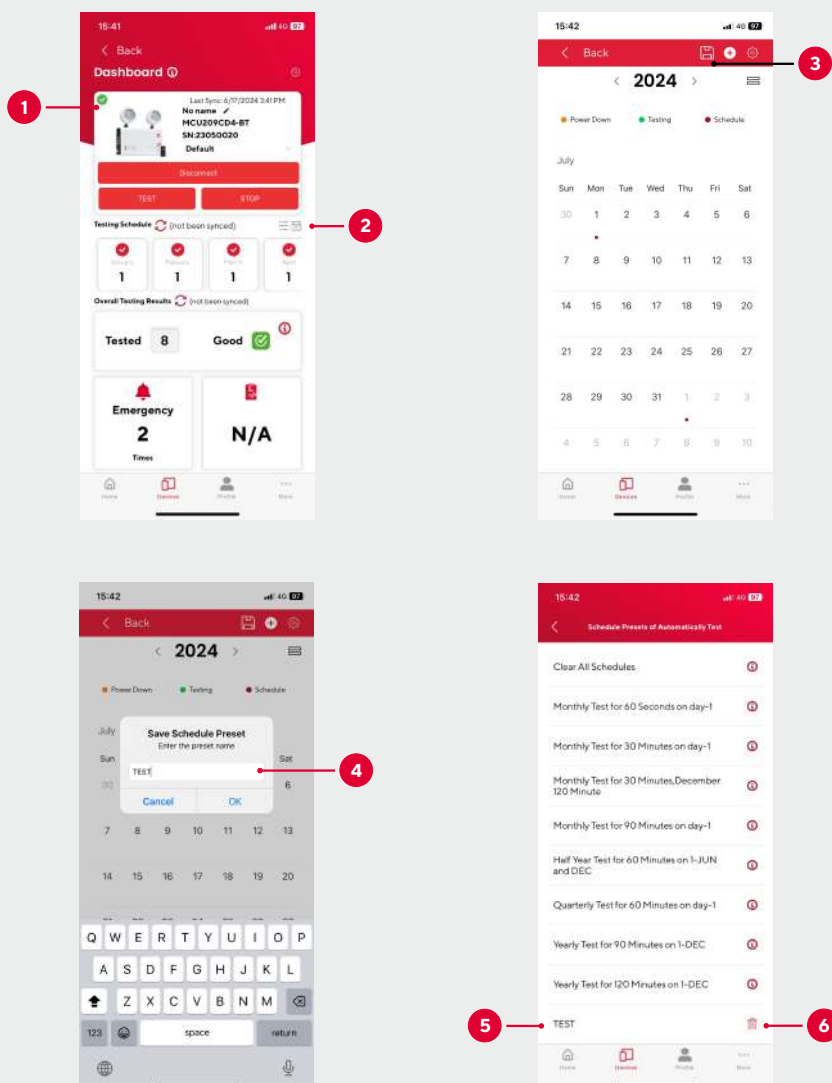
1. Ensure the device is successfully connected "1".
2. Then tap the "2" icon on the Dashboard page to go to the calendar.
3. Tap the "3" icon, which will take you to the "Add New Automatic Test Schedule" page.
4. Select options to set the preset values for the automatic test, such as month, day, time, duration, and repeat testing.
5. Tap the save button "4", and once the test is added, you'll return to the calendar page.



3.5.1.2 Save preset testing schedule.

To save a test schedule as a preset, creating a custom user-defined preset for convenience:

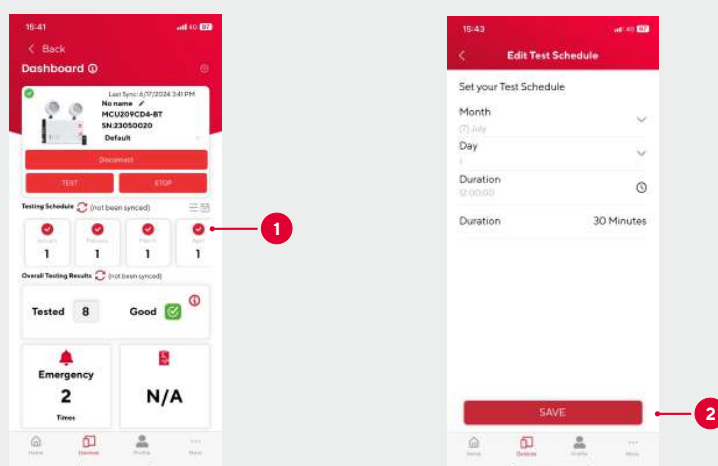
1. Ensure the device is successfully connected "1".
2. Then tap the "2" icon on the Dashboard page to go to the calendar.
3. Tap the "3" icon after adding the automatic test schedule.
4. A window will appear to specify the preset name, set it as desired "4".
5. Presets will be saved in the list on the "Automatic Device Testing Schedule Presets" page. "5"
6. You can delete unwanted presets from the list by tapping the "6" icon.



3.5.1.3 Edit the automated testing.

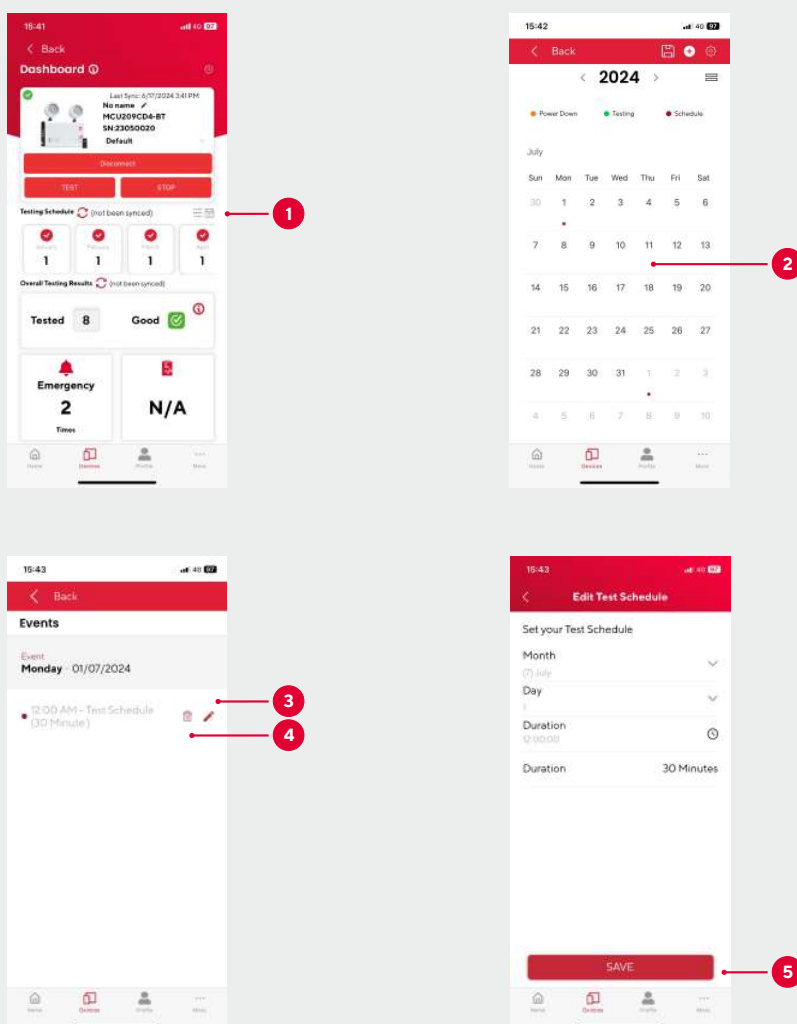
To edit an automatic test schedule:

1. Tap the test card of the schedule you want to edit on the Dashboard page to go to the edit automatic test schedule page "1".
2. Select options to edit the preset values for the existing automatic test, such as month, day, time, and test duration.
3. Tap save, and once edited, you'll return to the Dashboard page "2".



There is another way to edit an automatic test schedule:

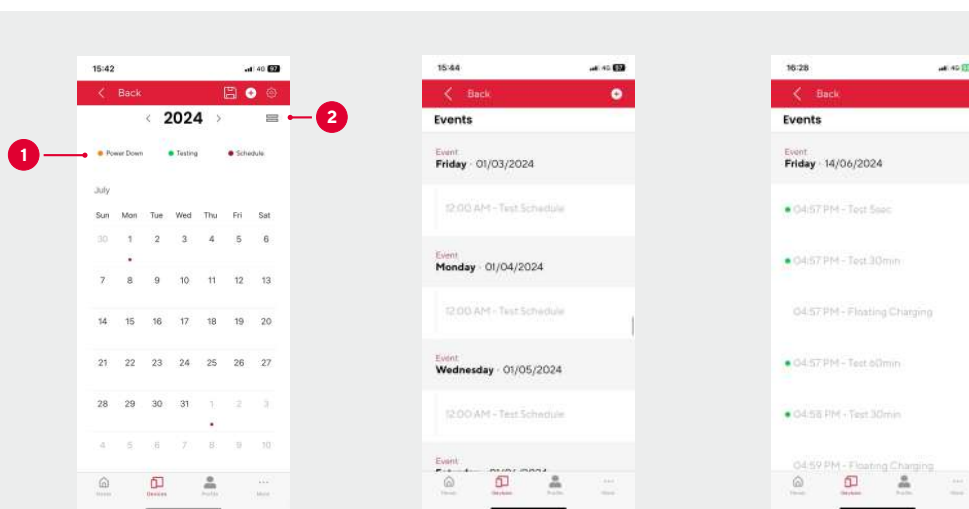
1. Tap the "1" icon on the Dashboard page to go to the calendar.
2. Tap the date you want to edit - dates with a scheduled test will have a red circle symbol to go to the Events page "2".
3. Tap the "3" icon to go to the edit automatic test schedule page, or tap the "4" icon to delete the test schedule right away.
4. Select options to edit the preset values for the existing automatic test, such as month, day, time, and test duration.
5. Tap the save button "5". Once edited, you'll return to the Events page.



3.5.1.4 Event

Events or occurrences on each day are displayed on the calendar page as follows:

1. Colored circle symbols are shown below the date numbers, divided into 3 colors "1".
 - Orange: Indicates a power outage.
 - Green: Indicates automatic or manual testing.
 - Red: Indicates scheduled automatic device testing
2. Tap the "2" icon or tap a date with a circle symbol to go to the Events page.



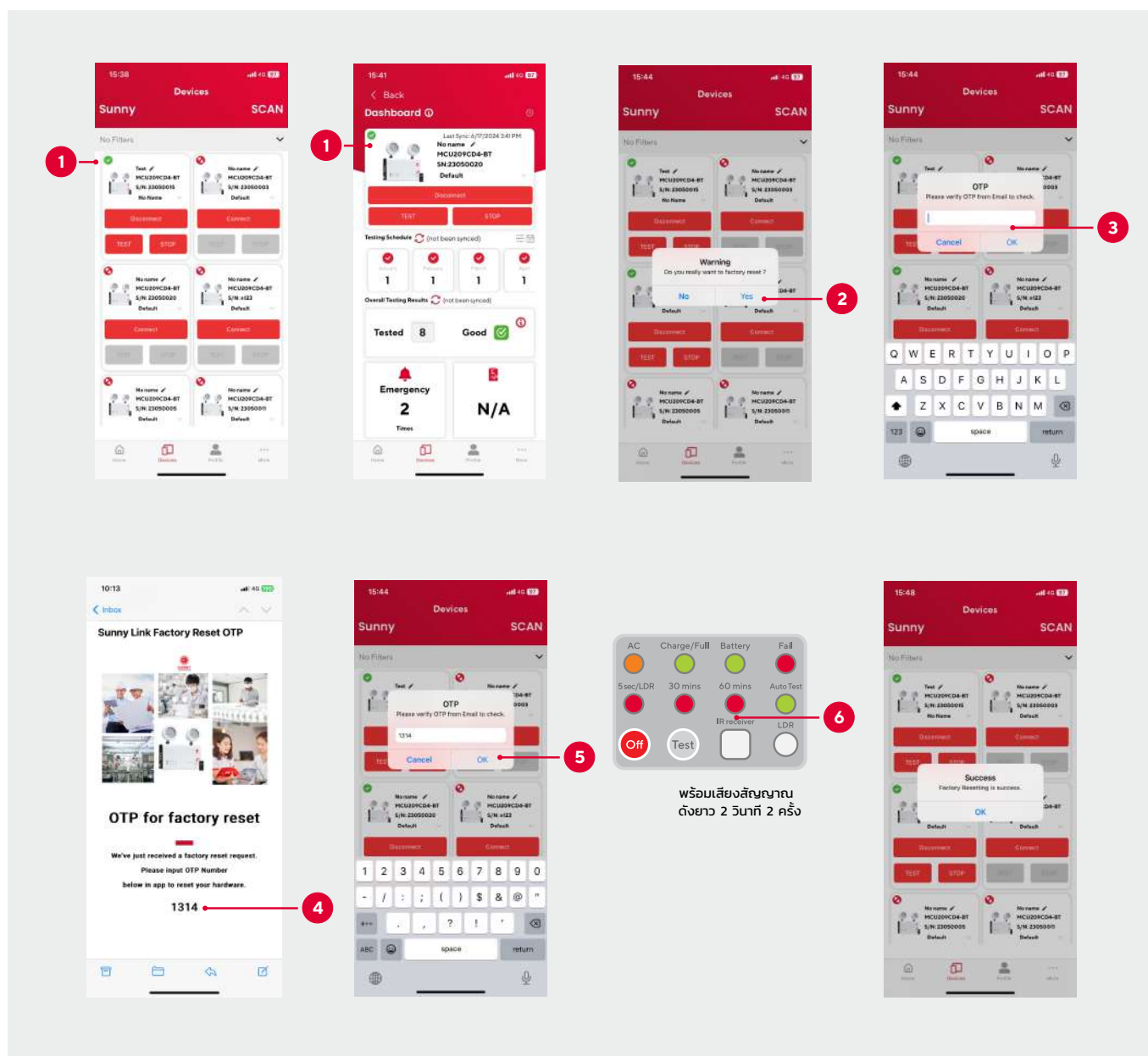
3.5.2 Factory Reset

The purpose of resetting a device to factory settings is:

1. To clear abnormal statuses on the device
2. Clear memory of connection to the user account to allow other accounts to connect and use the device
3. Restart the device's initial start date and time

The steps are:

1. Connect to the device you want to reset, tap the "1" icon.
2. A confirmation message will appear, tap "Yes" "2".
3. A prompt for the user to enter an OTP code will appear, the system will send the code to the user's Sunny Link account email "3".
4. Go to your email inbox, open the message from Sunny Link to find the OTP code "4".
5. After entering the OTP code, tap "OK" "5".
6. The system will reset the device to factory settings. Observe the 60 mins position "6" on the Indicator light up with a long 2 second beep twice. After that, all LED positions on the Indicator will turn off for 1 second and the device will automatically reboot. The app screen will show a reset successful message.



Part 4

Maintenance



4.1 Device Maintenance

- 1.) The device comes with an automatic self-test system (Auto Test) every 1 month, testing the device for 15 minutes, and every 1 year, testing for 120 minutes. This prepares the device and helps extend the battery life.

4.2 Initial Trouble Shooting

Problem	Cause	What to do
- Power not getting to the unit after plugging in. The LED AC light does not turn on.	<ul style="list-style-type: none"> - The power socket might not have any power. - The plug or socket is loose. - The AC fuse is blown. 	<ul style="list-style-type: none"> - Check the 220-240VAC power supply. - Check the plug and socket. - Contact customer service.
- Emergency light does not turn on after the power went out.	<ul style="list-style-type: none"> - The lamp is faulty. - The circuit's wiring is loose. - The DC fuse is blown. 	<ul style="list-style-type: none"> - Contact customer service. - Contact customer service. - Contact customer service.
- Emergency light only turns on for a short time after the power went out.	<ul style="list-style-type: none"> - The battery is not fully charged. - The battery is past its operational lifetime or has deteriorated. 	<ul style="list-style-type: none"> - Take the emergency light unit to charge until the "LED Charge" indicator turns off. - Contact customer service to replace the battery.

4.3 Important Note on Using the Unit

- 1.) The emergency lighting unit should be installed indoors, out of direct sunlight and humidity. It should not be installed in environment with temperatures higher than 50 degrees Celsius.
- 2.) The unit should be stored in temperatures under 25 Degree Celsius and the battery should be charged every 3 months to maintain its operational life.
- 3.) Please always read the manual carefully prior to operating the unit for the safest and most effective use of the product.

Part 5

Terms for Warranty and Service

4.1 Terms for Warranty and Service

1. The Warranty will only be covered if the customer fills in the “warranty registration form” and mail the return part back to the company within 7 days from the day of purchase. If this is not carried out the warranty will be considered void.
2. The warranty only covers the unit’s internal parts. The conditions and durations for the warranty of each part is as specified and the duration of the warranty is calculated from the date of purchase.
3. Please show your warranty card every time you contact our service center or the dealer you purchased the product from.
4. Products that fall into the following category are considered not covered by the warranty.
 - 4.1 The product was used in a way not specified in the manual.
 - 4.2 The product was used with accessories not meeting the required specifications specified in the manual.
 - 4.3 The product seems to have been damaged from being dropped or from strong impact, for example, the parts are loose, dented, scrapped or misshapen.
 - 4.4 The product has been repaired or modified by personnel not authorized by our company.
 - 4.5 The Warranty Void sticker is torn or removed.
 - 4.6 The product is damaged from careless use or incorrect maintenance, for example, the battery is swollen from overcharging, quick charging was used on the battery, the battery terminals have been short-circuited, the unit was used until the battery was completely discharged and not recharged immediately, the product was stored for long periods until the Battery Checker warning activates and still it is not plugged-in to charge or taking the battery to normal temperature conditions and not recharging it every 1 month.
 - 4.7 The product was stored in an unsuitable environment, for example, a location with moisture or water vapor.
 - 4.8 The product was supplied with a faulty AC power supply such as electrical overvoltage, electrical current surges, or lightning strikes entering the AC power line.
 - 4.9 Damages from natural causes such as fire, being summered in fluids, humidity, chemicals or force majeure.
 - 4.10 Damages from insects or animals.

Note : Please read the manual carefully before installation and operation to understand how to properly operate the unit.

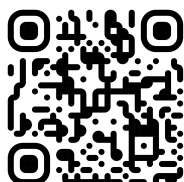
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