# Wiser Micro Module Dimmer

## Device user guide

**Information about features and functionality of the device.**
**06/2024**

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# 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. |

# Wiser Micro Module Dimmer

**CLP5010WDZ**

# For your safety

| ⚠⚠DANGER |
|---|
| **HAZARD OF ELECTRIC SHOCK, OR ARC FLASH** |
| • It is illegal for persons other than an appropriately licensed electrical contractors or other persons authorised by legislation to work on the fixed wiring of any electrical installation. |
| • To comply with all safety standards, the device must be used only for the purpose described in this instruction and must be installed in accordance with the wiring rules and regulation in the location where it is installed. |
| • Lock out and tag the input circuit before accessing the wiring connections. |
| • There are no user serviceable parts inside the device |
| **Failure to follow these instructions will result in death or serious injury.** |

| ⚡⚠DANGER |
|---|
| **HAZARD OF ELECTRIC SHOCK** |
| • Make sure that the terminal connection area does not come in contact with the metallic parts of any device installed in the same location. |
| • Do not short the outputs to neutral. |
| **Failure to follow these instructions will result in death or serious injury.** |

| ⚠CAUTION |
|---|
| **EQUIPMENT DAMAGE** |
| • Always operate the product in compliance with the specified technical data. |
| • Never connect any mixed inductive/capacitive loads. |
| • Connect only dimmable loads. |
| • Do not use dimmable socket outlets. |
| • Please ensure that the device is disconnected from its circuit during the insulation resistance test |
| **Failure to follow these instructions can result in injury or equipment damage.** |

> ## ⚠⚠DANGER
>
> **RISK OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH**
>
> - When working on the device, always disconnect the device from the power supply, as the output may carry electrical current even when the load is switched off.
> - Isolate the incoming circuit before installation, maintenance, or service (or replacement of the load) of the device.
>
> **Failure to follow these instructions will result in death or serious injury.**

# About the device

The Wiser Micro Module Dimmer (hereinafter referred to as module) combines the advantages of smart dimmer functionality with ordinary mechanical push-button switches. It transforms a conventional switch into a connected device which can be controlled from the switch or through the Wiser app. It can switch and dim the ohmic, inductive, or capacitive loads and it is also compatible with dimmable LEDs.

**NOTE:** Do not control any devices that depend on a permanent power supply.

Additional features:

- Remote control with maximum of 10 single mechanical push-buttons.
- Setting the LED operating mode manually (RL LED mode).
- Electronic overload protection, overheating protection, and short-circuit protection.
- Setting the dimming range: minimum and maximum brightness.
- Setting a time schedule.

# Installing the device

Refer to the installation instruction supplied with this product.

See Wiser Micro Module Dimmer.

# Testing the device

Before using the module, manually test it and make sure that it works when connected to the lighting devices.

- Short press the push button once, the connected lighting device turns on/off.
- Press and hold the push button to adjust the dimming level of the connected lighting device.

# Pairing the device

Using the Wiser app, pair your device with the **Wiser Hub** to access and control the device. You can either add the device manually or do an auto-scan to pair it.

## Pairing device manually

To pair the device manually:

1. On **Home** page, tap **+**.

2. Tap [icon] and select the **Wiser Hub** on the slide-up menu.

3. Select an option to add the device (A):
   – **Add Device with Install Code**
   – **Add Device without Install Code**



**TIP:** It is recommended to add the device with install code.

4. To pair the device with install code, tap **Add Device with Install Code** to display the slide-up menu. Select any one of the options (B):

   – **Scan Install Code**: you can scan the device for the install code.

     **TIP:** You can find the QR code on the rear side of the device.

   – **Enter Install Code Manually**: you can manually enter the install code from the device.

     **TIP:** You can find the install code on the rear side of the device.

   After scanning or entering the install code, proceed to **Step 6**.



5. To pair the device without install code, tap **Add Device without Install Code**.

6. Short press the push button 3 times.



   The LED blinks orange.

     **NOTE:** If the module is located behind the push button, the status LED is not visible.

7. In the app, select **Confirm LED is flashing orange** and tap **Start configuration** (C).



After a few seconds, a solid green LED indicates that the device is successfully paired to the Hub.

8. Once the device is added in the app, tap **Done**.

# Pairing device with auto scan

Pairing the device with auto scan automatically discovers the device when the corresponding device is powered on.

1. On the **Home** page, tap **+**.

2. Tap **Auto scan > Confirm**.

3. Enable permissions to **Access location** and **Wi-Fi** for scanning device and tap **Start scanning**.

   **NOTE:** If you have multiple hubs, do Step 4 or proceed to Step 5.

4. Tap **Select hub** and select the **Wiser Hub** from the slide-up menu.

5. Short press the push button for 3 times (< 0,5 s). Wait for a few seconds until the device search is complete.

   The LED blinks orange.

   **TIP:** If you want to pair multiple devices at once, perform step 5 on each device and wait for a few seconds for them to be detected.

6. Tap **Next** (A) and select **Micromodule Dimmer**.



7. Once the device is added successfully, tap **Done**.

# Configuring the device

## Changing the device icon

You can change the device icon using the Wiser app.

1. On the **Home** page, select the device for which you wish to change the icon.

2. At the top-right corner of the screen, tap ✎ .

3. Tap edit ✎ next to the device name.

4. Tap **Icon** to view the menu.

5. In the slide-up menu, select any one of the following (A) to change the device icon:

   – **Take photo** - allows you to take a photo with your device camera.
   – **Select from Icon Library** - allows you to select an icon from the app library.
   – **Select from Album** - allows you to select a photo from the mobile gallery.

# Renaming the device

You can rename the device using the Wiser app.

1. On the **Home** page, select the device for which you wish to rename.

2. At the top-right corner of the screen, tap ✎ .

3. Tap edit ✎ next to the device name.

4. Tap **Name**, enter the new name (A) and then tap **Save**.



# Changing the device location

You can change the device location using the Wiser app.

1. On the **Home** page, select the device for which you wish to change the location.

2. At the top-right corner of the screen, tap ✎ .

3. Tap edit ✎ next to the device name.

4. Tap **Location**.

5. Select the desired location from the list (A) and then tap **Save**.

# Setting RL-LED mode

You can change the dimming mode in the app if you have problems with light flickering. By changing the dimming mode, the dimming quality is also improved. To set the RL-LED mode:

1. On the **Home** page, Tap **All devices** > **Micromodule Dimmer**

2. Tap ⚙ **Settings**.

3. Tap **Dimming Mode** and Select **Leading Edge (RL-LED)** (A) from the slide-up menu.

   **NOTE:**

   • Refer to Technical Data, page 30 for more information.

   • **Manual operation (Optional):** Press the Push button 14 times.
      ◦ If the status LED blinks 3 times in green, RL-LED mode is enabled.
      ◦ If the status LED blinks once in green, Auto mode is enabled.



# Setting brightness level

If the dimmer is connected to an LED, the minimum and maximum brightness should be set to avoid flickering and switching off the LED.
To set the minimum and maximum brightness level:

1. On the **Home** page, Tap **All devices** > **Micromodule Dimmer**.

2. Tap ⚙ **Settings**.

3. Tap **Dimming Range** then drag the sliding bar to increase or decrease the **Minimum Brightness** and **Maximum Brightness** (A).

4. Tap **Close** (B).



# Toggle mode setting

You can toggle between the last used brightness level or with 100% brightness level when the dimmer is turned on.
To toggle between the brightness level:

1. On the **Home** page, tap **All devices** > **Micromodule Dimmer**.

2. Tap ⚙️ **Settings**.

3. Tap **Toggle Mode Setting** and select either one of the function for default action.

   – **100%** (A) : to set the brightness level to 100% by default when ever the device is turned on.

   – **Last Level** (B) : to set the previously used brightness level by default when ever the device is turned on.

# Removing the device

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

1. On the **Home** page, tap **All devices** > **Micromodule Dimmer**.

2. Tap ✐ to display more details.

3. Tap **Remove and Factory Reset Device** (A).



**TIP:** On the **Home** page, tap and hold the **Micromodule Dimmer** to remove the device.

**NOTE:**

- Removing the device will reset the module. After reset the LED turns orange indicating that the module is ready to pair with another network.

- If there is a problem while pairing or resetting the module, refer to Resetting the device manually, page 17.

# Resetting the device

You can reset the device to factory default manually.

1. Short press the push button 3 times and then long press the push button once for 10 s.



$3 \times < 0,5\ s + 1 \times > 10\ s$

2. After 10 s, LED starts blinking red, then release the push-button.

> **NOTE:** All configuration data, user data, and network data are deleted.

- Automatic load detection is active, if RC mode is set.

The LED stops blinking upon successful reset of the device.
The module restarts and blinks green for a few seconds.

# Using the device

## Manual operation

When the module is connected to a mechanical push button, the connected lighting devices can be controlled manually.

- Short press the mechanical push button to turn on/off the light.

- Press and hold the mechanical push button to adjust the dimming level of the light.



## Adjusting the brightness level using app

Using the Wiser app, you can increase/decrease the brightness level remotely. To increase/decrease the brightness level:

1. On the **Home** page, tap **All devices.**

2. In **Micromodule Dimmer** tap the power button (A) to turn on/off the device.



3. Tap ∨ for slide-up menu.

4. In the slide-up menu, drag the sliding bar (B) to increase/decrease the brightness.



5. Alternatively, you can navigate to device menu and tap on (C) to turn on/off the device. When the device is turned on, drag the sliding bar (D) up/down to increase/decrease the brightness.

# Setting up a schedule

The device can be fully controlled by a schedule. Once the schedule is set, the device operates at a given time.

1. On the **Home** page, Tap **All devices** > **Micromodule Dimmer**.

2. Tap **Schedule** > **Add Schedule** to add a schedule.

3. In **Add Schedule** menu, set the time (A).

   **NOTE:** The Schedule works according to the time zone where the device is located.

4. Tap **Repeat** (B) to select the days you want to set the schedule.

5. Tap **Note** (C), enter the note and tap **Confirm**.

6. Tap the toggle switch (D) to turn on the **Notification** for the schedule. The app will send a notification that the scheduled task is executed at the time of schedule.

7. Adjust the **Brightness settings** (E) through sliding bar.



8. Tap **Save**

# Creating a moment

A Moment allows you to group multiple actions that are usually done together. Using the Wiser app, you can create moments based on your needs.

1. On the **Home** page, tap ⊞.

2. Go to **Moment** > **+** to create a moment.

3. Tap **Edit name** ✎ (A), enter the name of the moment and tap **Save**.

   **TIP**: You can choose the cover image that represents your moment by tapping 🖾.



4. In the **Action** section, tap **Add task** (B) to open the slide-up menu.

5. In the **Add task** menu, you can do either or all of the following actions (C):

   – **Run the device**: select the devices that you want in a moment.
   – **Select Automation**: select the automation that you want to enable or disable.
   – **Delay**: set the delay time.

   **NOTE**: You can add one or more actions using ➕.

6. Tap **Run the device** > **Micromodule Dimmer** to select either or all the functions to add in the moment:

   – **Dimmer** (D): to turn on/off the device.

   – **Brightness** (E): to set the percentage of brightness required.



7. Tap **Next** and once the actions are set, tap **Save**.



## Editing a moment

1. On the **Moment** tab, locate the moment you want to edit and tap ●●●.

2. On the **Edit** page, you can tap each item (such as dimmer, shutter, delay, temperature, etc.) to change the settings.

   **TIP:**

   • You can add one or more actions using ⊕.

   • To delete an existing action, slide each item towards left and tap **Delete**.

## Deleting a moment

To delete a moment:

1. On the **Moment** tab, locate the moment that you want to delete and then tap ●●●.

2. Tap **Delete** and then tap **Ok**.

   **NOTE:** After deleting a moment, the device action can no longer be triggered.

# Creating an automation

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

1. On the **Home** page, tap the ⊞.

2. Go to **Automation** > **+** to create an automation.

3. Tap **Edit name** ✎ (A), enter the name of the automation and tap **Save**.

   **TIP**: You can choose the cover image that represents your automation by tapping ⊡.

4. Tap **Any condition is met** to select any one of the condition type (B):

   – **All conditions are met**: the automation is triggered when all the conditions are met.

   – **Any condition is met**: the automation is triggered when at least one condition is met.



5. Tap **Add Condition** to open the slide-up menu.

6. In the **Add Condition** menu, you can do either or all of the following options (C):

   – **When weather changes**: select the various weather settings.

   – **Schedule**: set the time and day.

   – **When device status changes**: select the device and it's function.

   **NOTE:** You can add one or more conditions using ⊕.

7. Tap **When device status changes** > **Micromodule Dimmer** and select either or both the functions:

 – **Dimmer**: turn the Dimmer on/off (D).

 – **Brightness**: adjust the brightness level (E).



8. Tap **Add task** to open the slide-up menu.

9. In the **Add task** menu, you can do either or all of the following options (F):

 – **Run the device**: select the devices that you want to trigger.

 – **Moment or Automation**: select the moment which you want to trigger or select the automation that you want to enable or disable.

 – **Send notification**: turn on notification for the automation.

 – **Delay**: set the delay time.

**NOTE**: You can add one or more actions using ⊕.

10. Tap on Effective period to set the time range for the automation. You can select any one of the following (G):

  – **All-day** - 24 hours

  – **Daytime** - From sunrise to sunset

  – **Night** - From sunset to sunrise

  – **Custom** - User defined time period



11. Set all the actions and conditions and tap **Save**.

Automation is now available under **Automation** tab. Use toggle switch to enable/disable automation.

## Example of an automation

This demonstration shows you how to create an automation to turn on the dimmer at the scheduled time.

1. Go to **Automation** > **+** to create an automation.

2. Tap **Edit name**, enter the name of the automation and tap **Save**.

TIP: You can choose the cover image that best represents your automation by tapping .

3. Tap **Add Condition** > **Schedule**.

- Tap **Repeat** (A), select the days you want to set the schedule and tap **Save**.

- Set the time (B) at which the automation must start and tap **Next**.



4. Tap **Add task** > **Run the device** > **Micromodule Dimmer**.

5. Tap **Dimmer** (C) and in the slide-up menu, select **On** and tap **Save**.

6. Tap **Brightness** (D) and update the required brightness level and tap **Save**.



7. Tap **Next**.

8.  In the **Automation Settings** page, tap **Save**.



Once the automation is saved, it is visible on the **Automation** tab. You can tap the toggle switch on the automation to enable it.

# Editing an automation

1.  On the **Automation** tab, locate the automation you want to edit and tap ●●●.

2.  On the **Edit** page, you can tap each item (such as dimmer, shutter, delay, temperature, etc.) to change the settings.

    **TIP:**

    •   You can add one or more condition or actions using ⊕.

    •   To delete an existing condition or action, slide each item towards left and tap **Delete**.

# Deleting an automation

1.  On the **Automation** tab, locate the automation that you want to delete and then tap ●●●.

2.  Tap **Delete** and then tap **Ok**.

    **NOTE:** After deleting an automation, the device action can no longer be triggered.

# LED indication

## Pairing the device

| User Action | LED Indication | Status |
|---|---|---|
| Short press the push button 3 times. | LED blinks orange once per second. | Pairing mode is active for 30 seconds. When pairing is completed, LED glows green for a few seconds before turning off. |

## Resetting the device

| User Action | LED Indication | Status |
|---|---|---|
| Short press the push button 3 times and hold it down once for > 10 s. | LED blinks red once per second. | The device is in reset mode. The device then restarts and LED turns orange indicating that the device is ready for pairing. |

# Troubleshooting

| Symptom | Solution |
|---|---|
| Dimming up not possible. | • Reduce/increase the load.<br>• Allow the module to cool in case of overheating.<br>• Change the load (if the load is incompatible with the module). |
| Switching on not possible. | • Allow the module to cool in case of overheating.<br>• Reduce the load.<br>• Change the load.<br>• Check the wiring between the push button and the module. |
| Flickering at minimum brightness. | • Increase the minimum brightness (if flickering still persists, install a Load Compensation Module).<br>• Change the load (if the minimum brightness is insufficient).<br>• Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the module). |
| Flickering at maximum brightness. | • Reduce the maximum brightness.<br>• Change the load. |
| Flickering at normal brightness | • Change the load.<br>• Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the module). |
| Only slight dimming capability | • Change dimming range.<br>• Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the module).<br>• Change the load (if the load is incompatible with the module). |
| The device is not ready to pair after the device is removed from the app. | Reset to factory default settings, refer to Resetting the device manually, page 17. |

# Technical data

| Nominal power rating for load type | | |
|---|---|---|
| | Incandescent lamp | 2200 W |
| | Halogen lamp | 2000 W |
| | Iron core transformer | 500 VA |
| | Motor | 1000 VA |
| | Electronic step-down converter | 1050 VA |
| | Capacitive load | 10 A, 140 µF |
| | Fluorescent lamp | 100 W |
| | LED | 200 W |
| | Boiler | 2000 W |
| | Room heater | 1500 W |

| | |
|---|---|
| **Nominal voltage** | AC 220-240 V, 50/60 Hz |
| **Nominal current** | 10 AX |
| **Switching channel** | 1, dry contact |
| **Standby** | Max. 0.3 W |
| **Operating Temperature** | 0 ºC to 35 ºC |
| **Neutral conductor** | Required |
| **Connecting terminals** | Max. 2 x 2.5 mm$^2$, solid or stranded types |
| **Extension connection** | Max. 10 mechanical push buttons |
| **Length of all cable sections** | Max. 50 m for 3-wire NYM cable |
| **Fuse protection** | 16 A circuit breaker |
| **Operating frequency** | 2405 - 2480 MHz |
| **Max. radio-frequency power transmitted** | <10 mW |
| **IP rating** | IP20 |
| **Product dimensions (H x W x D)** | 43 x 43 x 22 mm |
| **Communication protocol** | Zigbee 3.0 certified |

**Compliance**

| | |
|---|---|
| **Product certification** | RCM |
| **Safety** | AS/NZS 60669.2.1 |
| **EMC** | AS/NZS 60669.2.1 |
| **RF** | AS/NZS 4268 |

# Compliance

## Compliance information for Green Premium products

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