Wiser Micro Module Dimmer

Device user guide

Information about features and functionality of the device.

05/2023







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Table of Contents

Safety information	4
Wiser Micro Module Dimmer	5
For your safety	5
About the device	6
Installing the device	6
Testing the device	6
Pairing the device	7
Pairing device manually	7
Pairing device with auto scan	10
Configuring the device	11
Changing the device icon	11
Renaming the device	12
Changing the device location	12
Setting RL-LED mode	13
Setting brightness level	13
Toggle mode setting	14
Removing the device	15
Resetting the device	16
Using the device	17
Manual operation	17
Adjusting the brightness level using app	17
Setting up a schedule	19
Creating a moment	20
Creating an automation	23
LED indication	28
Troubleshooting	28
Technical data	
Compliance	
Compliance information for Green Premium products	30
Trademarks	30

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.

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

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



PDL5010WDZ

For your safety

A A 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.

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.

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 connect the dimmer output to the socket outlet.

Failure to follow these instructions can result in injury or equipment damage.

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

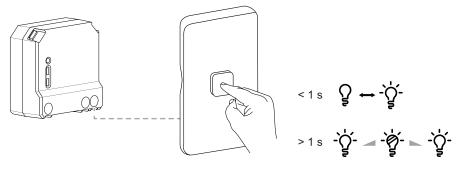
Refer to the installation instruction supplied with this product.

See Wiser Micro Module Dimmer.

Testing the device

Before using the module, manually test the module 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.



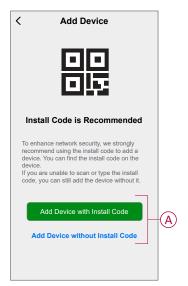
Pairing the device

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 $\frac{1}{2}$ 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.

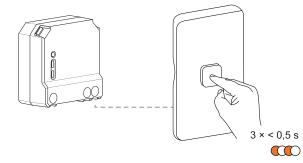
- 4. To pair the device with install code, tap **Add Device with Install Code** to display the slide-up menu. Select any one of the options (B):
 - Scan Install Code: you can scan the device for the install code.
 - TIP: You can find the QR code on the rear side of the device.
 - Enter Install Code Manually: 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.

Ins		
recom device device If you		
	Scan Install Code	
	Enter Install Code Manually	B
	Cancel	-

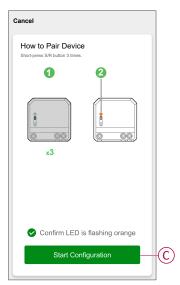
- 5. To pair the device without install code, tap Add Device without Install Code.
- 6. Short press the push button 3 times.



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 3 times (< 0,5 s) and 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.

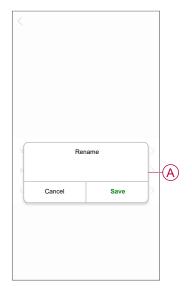
- 1. On the **Home** page, select the device for which you wish to change the icon.
- 2. At the top-right corner of the screen, tap
- 3. Tap edit *i* next to the device name.
- 4. Tap **Icon** to view the menu.
- 5. In the slide-up menu, select any one of the following (A) to change the device icon:
 - 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 *L* 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 *i* next to the device name.
- 4. Tap Location.
- 5. Select the desired location from the list (A) and then tap Save.

	Save
Living Room	0
Master Bedroom	0
Kitchen	0
Dining Room	0
Study Room	0
Kids Room	0

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 slideup menu.

NOTE:

- Refer to Technical Data, page 29 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.

Dimming Mod	e	
Auto	~	
Leading Edge (RL-	-LED)	C
Cancel		

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).

Dimming Mode Auto > Dimming Range > Foggle Mode Setting Last Level > Dimming Range Setting Minimum Brightness		
Foggle Mode Setting Last Level > Dimming Range Setting Minimum Brightness		
Dimming Range Setting Minimum Brightness		
Minimum Brightness		
Minimum Brightness		
	ming Range Setting	Dimming
		_

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.

<		
Dimmin		
Dimmin		
Toggle I		
	Toggle Mode S	ettings
	Last Leve	
	Last Leve	· · ·
	Cancel	

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).

< More		
$_ \ensuremath{\mathcal{G}}_*$ Micro Module Dimmer	<u> </u>	
Device Information	>	
Moment and Automation	>	
Others		
FAQ & Feedback	>	
Add to Home Screen	>	
Check for firmware update No updates	available.>	
Remove and Factory Reset Dev	ice	A

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

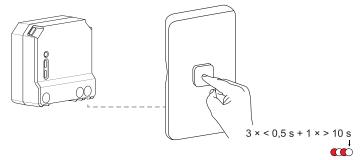
NOTE:

- 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 16.

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.



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

NOTE: All configuration data, user data, and network data are deleted. After which

- · No connectivity to other devices or rooms.
- Memory function is active.
- Automatic load detection is active, RC mode is set.
- Dimmer settings will reset to default.

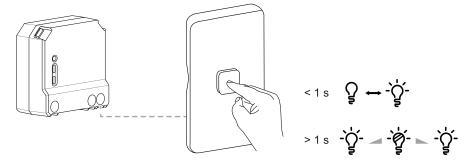
The LED stops blinking upon successful reset of the device. The module restarts and blinks green for a few seconds.

Using the device

Manual operation

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

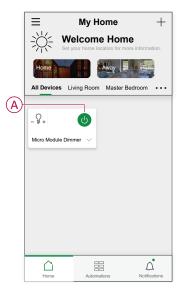
- Short press the push button to turn on/off the light.
- Press and hold the push button to adjust the dimming level of the light.



Adjusting the brightness level using app

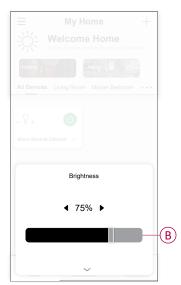
Using the Wiser app, you can increase/decrease the brightness level remotely. To increase/decrease the brightness level:

- 1. On the Home page, tap All devices.
- 2. In Micromodule Dimmer tap the power button (A) to turn on/off the device.

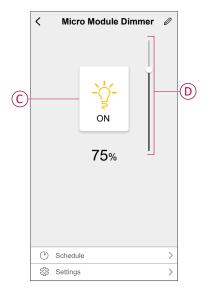


3. Tap V for slide-up menu.

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 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.

	Add Schedule	Save
	07 06 08 07	
	09 08	
	10 09	
	11 10	
	12 11 13 12	
	1.4 1.0 <u></u>	
Repeat		Once >
Note		>
Notificatio	on	0
Micro Mo	dule Dimmer	
	Brightness Settings Off	
Off	50% I	100%
* 🖳		*
Note - The S device is loc	chedule works according to the tir ated.	nezone where

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 .

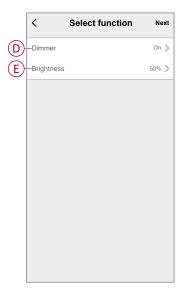


- 4. In the Action section, tap Add task (B) to open the slide-up menu.
- 5. In the Add task menu, you can do either or all of the following actions (C):
 - Run the device: select the devices that you want in a moment.
 - Select Automation: select the automation that you want to enable or disable.
 - Delay: set the delay time.

NOTE: You can add one or more actions using \bigcirc .

Cancel	Moment settings	Save	
	Add Task		B
	Add Task		
() R	un the device	>	
EE S	elect Automation	>	0
(L) D	elay	>	

- 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:

- 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 \blacksquare .
- 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 $\boxed{}$.

		dition is met V Edit r		
A)				
	A	Cancel	Save	

- 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.

Cancel	Automation settings	Sav	е
	Select Condition type		
	All conditions are met		
	Any condition is met		
	Cancel		

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 \oplus .

Add Condition		
X When weather changes	>	
C Schedule	>	C
U When device status changes	>	
	_	

- 7. Tap When device status changes > Micro Module Dimmer and select either or both the functions:
 - **Dimmer**: turn the Dimmer on/off (D).
 - Brightness: adjust the brightness level (E).

	<	Select function	Next
D	Dimmer		>
E	Brightness		>

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 igoplus.

	Add task		
Ċ	Run the device	>	
	Moment or Automation	>	Ē
D	Send notification	>	U
Ŀ	Delay	>	

- 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

< Effective pe	eriod Next
All-day 24 hours	۲
Daytime From sunrise to sunset	0
Night From sunset to sunrise	0
Custom User-defined time period	0
Repeat	Everyday >
City	>
	All-day 24 hours Daytime From sunfise to sunset Night From sunset to sunfise 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.

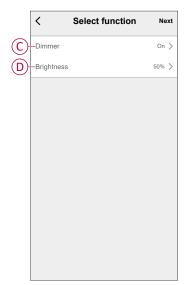
- 1. Go to Automation > + to create an automation.
- 2. Tap Edit name, enter the name of the automation and tap Save.

TIP: You can choose the cover image that best represents your automation by tapping $\overleftarrow{\sim}$.

- 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.

<	Schedule	Next
Repeat		Every Day 〉
Execution Tin	ne	
	04 29	
	05 30	
	06 31	

- 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.

ancel Automation se	ttings Save
Any condition is met V Schedule:05:30 Every Day	(1/10) 🖶
Action	(2/80) 🕂
$_{-} \ensuremath{\mathbb{G}}_{+}$ Micro Module Dimmer	Dimmer:On
$\ \ \ \ \ \ \ \ \ \ \ \ \ $	Brightness:50%
Effective Period	Ali-Day >

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 igodot.
- 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.
	\bigcirc	

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 load. Allow the module to cool in case of overheating. Change the load (if the load is incompatible with the module). 	
Switching on not possible.	 Allow the module to cool in case of overheating. Reduce load. Change load. Check wiring between the push button and the module. 	
Flickering at minimum brightness.	 Increase minimum brightness (if flickering still persists, install a 31LCDA load correction device). Change the load (if the minimum brightness is insufficient). Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the module). 	
Flickering	 Change load. 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. Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the module). 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 16.	

Technical data

Nominal power rating for load type			
黨	LED		5 – 100 VA – RC 5 – 20 VA – RL
	Incandescent lamp		14 – 200 W – R
	Iron core transformer		14 – 150 VA
	Halogen lamp		14 – 150 W – R
	Electronic step-down converter		14 – 200 VA C
Nominal voltage		AC 220-240 V, 50/60 Hz	
Dimming channel		1	
Standby		Max. 0.4 W	
Operating Temperature		0 °C to 35 °C	
Neutral conductor		Not 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	

43 x 43 x 22 mm

Zigbee 3.0 certified

Product dimensions (H x W x D)

Communication protocol

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).

https://checkaproduct.se.com/



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

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DUG_Wiser Micro Module Dimmer_CLP-00