

HEATIT WM DIMMER

Installers manual

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MyHeatit App



TABLE OF CONTENTS

1. INTRODUCTION

2. INSTALLATION DISCLAIMER

3. QUICK START

4. CONNECTIONS

4.1. Wiring diagram

5. LED BLINKING PATTERNS DESCRIPTION

5.1. Device Not in Network

5.2. Add mode

5.3. Factory Reset

5.3.1. Figure 1 (success)

5.3.2. Figure 2 (fail)

5.3.3. Figure 3 (fail)

6. STARTUP

7. WI-FI NETWORK SELECTION

8. ADD/REMOVE

8.1. Wi-Fi and Bluetooth

9. QR CODE PLACEMENT



10. FACTORY RESET

11. SWITCH INPUTS

12. MINIMUM DIM LEVEL

13. MAXIMUM DIM LEVEL AUTOCALIBRATION

14. DIRECTLINK

14.1. Setting and Removing DirectLinks

14.2. DirectLink groups

14.2.1. Transmitting capabilities

14.2.2. Receiving capabilities

15. API

16. CONFIGURATION PARAMETERS

17. INDICATOR

18. FIRMWARE UPDATE - OTA

19. SAFETY FEATURES

19.1. Overheating

19.2. Overload

20. ERROR CODES

21. PRODUCT INFO

22. MAINTENANCE

23. TRANSLATION

24. DIMENSIONS

25. DISCLAIMER

1. INTRODUCTION

Heatit WM Dimmer is a 250W dimmer suitable for use with LED lights and other types of light sources. The dimmer works with most low loads without causing flicker. It can be controlled via Wi-Fi or Bluetooth (BLE) using the "MyHeatit" App or via a wired switch. Heatit WM Dimmer is designed for hidden installation in a standard European junction box or within the Heatit Strain Reliever.

All Heatit products with Wi-Fi support and marked with the MyHeatit logo, can be controlled via our "MyHeatit" App. In the app, you can create profiles such as "Home", "Away", "Night", and "Work" to easily control your connected devices. The app also offers scheduling and sunrise/sunset automation, allowing lighting to be controlled automatically according to local sunrise and sunset times.

The installer configures the system via Wi-Fi. If Wi-Fi is not available, the system can be configured via Bluetooth. After the system is set up, the installer can transfer the property to the customer. The customer can then add the system to their local Wi-Fi network.

When used with Wi-Fi, the dimmer can communicate over a local API, allowing the user to integrate it with a local gateway, server, or controller that offers such a service, without the need to connect it to the cloud. The device also supports Amazon Alexa and Google Home.

The dimmer has 2 switch inputs that, in addition to controlling the dimmer, can be used as scene controllers.

The dimmer can be connected wirelessly to other devices via DirectLink. It can be controlled by other dimmers and switches, and it can also control other dimmers.

Heatit WM Dimmer features power metering, providing real-time information about your power consumption.

2. INSTALLATION DISCLAIMER

Installation must be done by a qualified electrician in accordance with national building codes.

Before installation, disconnect the power to the device from the mains. During installation of the device, power to the device must be disconnected AT ALL TIMES!

3. QUICK START

Upon connecting the device to power, it will automatically enter add mode for a duration of 60 minutes.

1. Switch off the mains voltage (disable the fuse).
2. Open the junction box.
3. Connect the wires according to the description in chapter "Connections". Optional: Connect external wired switches.
4. After verifying the connections, switch on the mains voltage.

5. In the "MyHeatit" App, choose "Add Device", enter your Wi-Fi details, search for and select your device.
6. The device's internal LED will light up green for 3 seconds when successfully added.

NB! If adding fails, the LED will light up in red for 3 seconds.

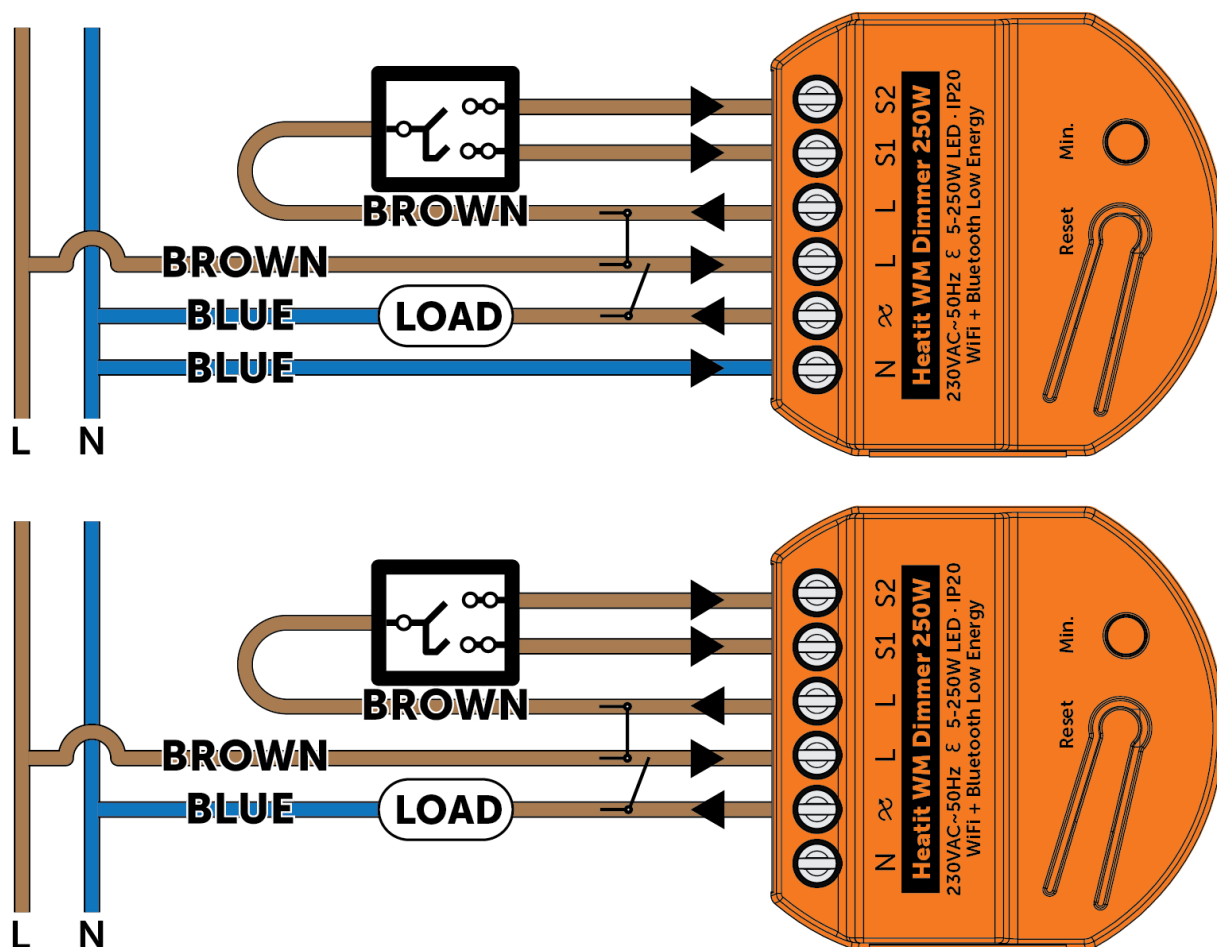
4. CONNECTIONS

Max tightening torque terminal screws: 2Nm.

If the cable used has multiple strands, an end sleeve is advised. The product allows for wiring of cables with a cross section of up to 1x2.5mm².

Terminal	Description
N	Power connection (Neutral) 230VAC.
Load output	Load connection (Light).
L	Power connection (Live) 230VAC.
L	Power connection (Live) 230VAC.
S1	External momentary switch. Used for dimming the load. Can be used as a scene controller.
S2	External momentary switch. Can be used for either dimming or as a scene controller.

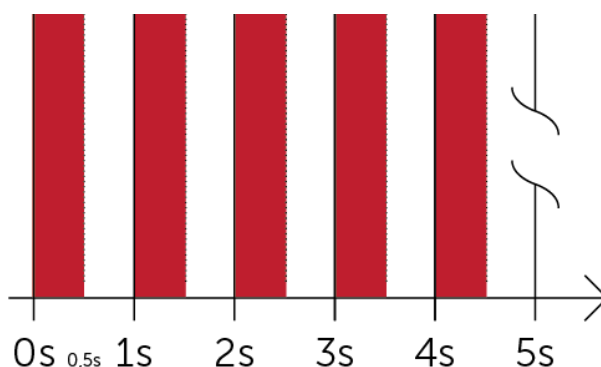
4.1. Wiring diagram



5. LED BLINKING PATTERNS DESCRIPTION

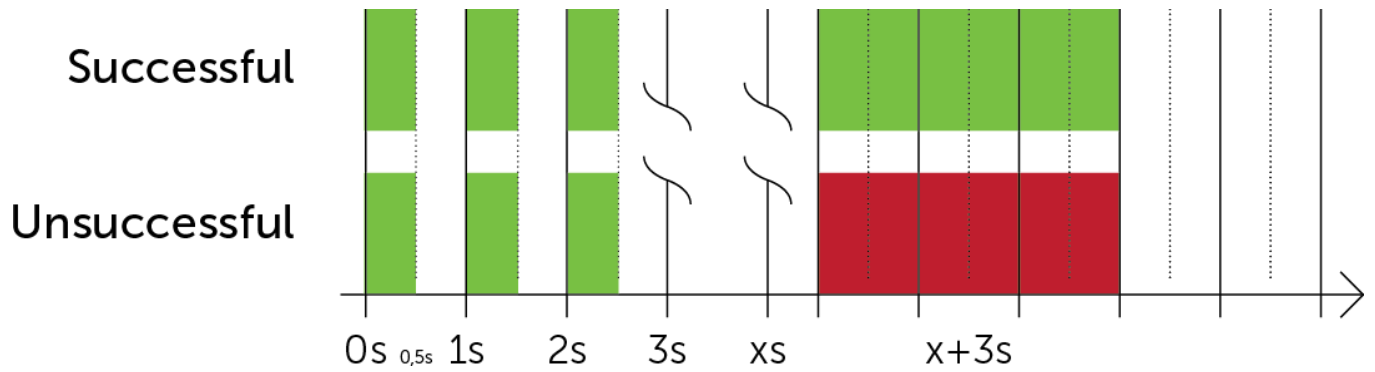
5.1. Device Not in Network

The LED will flash in red when the device is not added to WiFi or Bluetooth.



5.2. Add mode

When device enters add mode the LED will flash green. If successful, the LED will light up in green for 3 seconds. If unsuccessful, the LED will light up in red for 3 seconds.



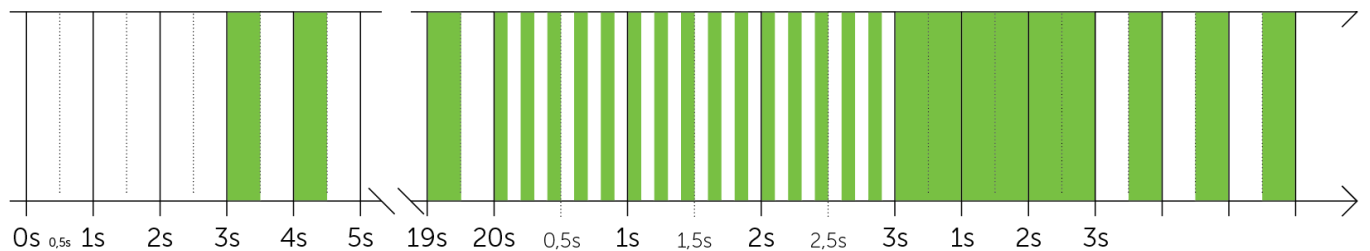
5.3. Factory Reset

If the button is held for more than 3 seconds, the GREEN LED will start blinking with 0.5s intervals.

When the button has been held for 20 seconds, the GREEN LED will blink rapidly with 0.1s intervals for 3 seconds.

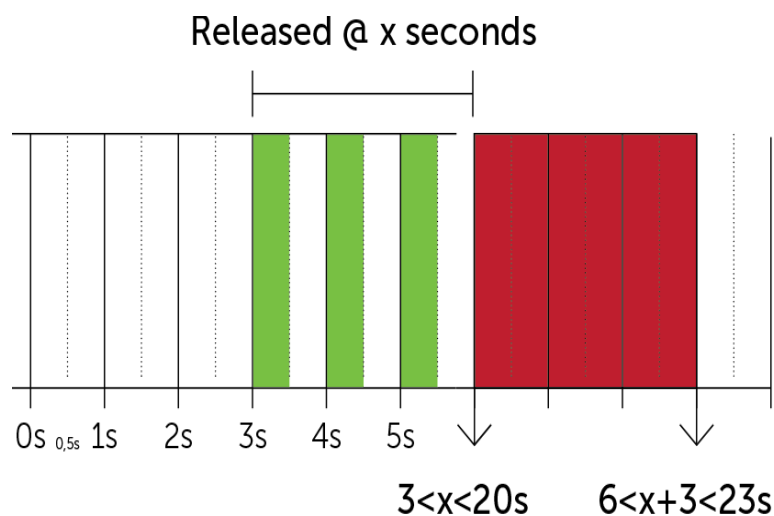
5.3.1. Figure 1 (success)

Within the 3 second period the reset button must be released. If the reset button is released within this period, the device will indicate that it has been successfully reset by lighting up in solid green for 3 seconds. The device will then start blinking green because it enters add mode for the first 60 minutes.



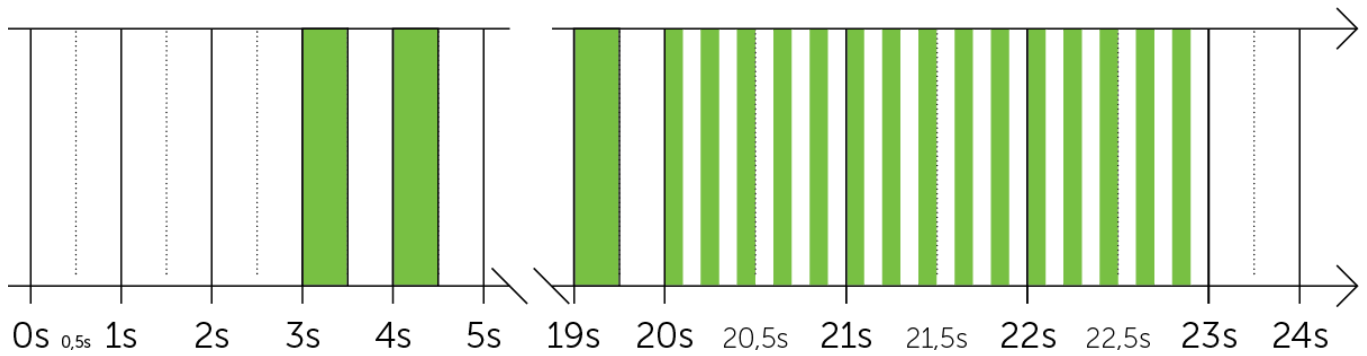
5.3.2. Figure 2 (fail)

If the reset button is released before the 3 second period, the device will indicate fail by turning red LED on for 3 seconds.



5.3.3. Figure 3 (fail)

The reset button MUST be released between 20 and 23 seconds for local reset to take place. If held longer, the device will ignore the command.



6. STARTUP

After powering up the device for the first time, all parameters will have default settings.

7. WI-FI NETWORK SELECTION

The device supports 2.4GHz networks only.

8. ADD/REMOVE

Please read this before installation

Upon connecting the device to power, it will automatically enter add mode for a duration of 60 minutes. During this time the device can be added to the App without starting add mode locally on the device.

To remove a device, find the device in the "MyHeatit" App and choose "Delete this device". If this is not possible, perform a "Factory reset".

8.1. Wi-Fi and Bluetooth

Manual add mode is indicated on the device by LED blinking green. It indicates this for 90 seconds until a timeout occurs, or until the device has been added to the network. Add mode may also be cancelled by performing the same procedure as for starting add mode.

Automatic add mode is shown by a blinking green LED for 60 minutes after power is applied if the device is not already included.

To include the device in the app, using either Wi-Fi or Bluetooth.

1. Ensure device is in either manual, or automatic add mode.
 - 1.1. Manual add mode
 - Press the reset button three times rapidly.
 - 1.2. Automatic add mode
 - Power on the device and proceed within 60 minutes.
2. In the "MyHeatit" App, choose "Add Device".
3. Choose Wi-Fi or Bluetooth.
4. Search for your device and select it or scan the QR code.

When a device is added to Bluetooth it is not accessible from the internet. You need to be within Bluetooth range of the device to control it.

The device is now ready for use with default settings.

NB! When the device is removed from the "MyHeatit" App, the parameters are reset. If inclusion fails, please perform a "Factory reset".

9. QR CODE PLACEMENT

The QR Code can be used for inclusion, simplifying the adding procedure. The QR code can be located on the product.

10. FACTORY RESET

Press and hold the reset button. After 3 seconds the LED will start to blink green. After 20 seconds the LED will start blinking green rapidly. You may now release the button. If reset was successful the LED will light up in solid green for 3 seconds.

11. SWITCH INPUTS

The dimmer has two switch inputs, S1 and S2, for connecting external momentary switches. S1 is used for dimming the load and can also be used as a scene controller. S2 can be used for either dimming or as a scene controller.

A short press toggles the load on or off; press and hold to adjust the brightness. Double press for 100% can be activated with parameters. When configured as a scene controller, button presses send scene commands to the network without changing the load.

12. MINIMUM DIM LEVEL

The minimum dim level sets the lowest brightness the dimmer will output. Some LED loads turn off or flicker at very low levels; raise the minimum dim level until the load is stable at its lowest setting.

The minimum dim level can be adjusted from the device, from the app or from the API.

13. MAXIMUM DIM LEVEL AUTOCALIBRATION

Maximum dim level autocalibration lets the dimmer automatically determine the highest usable brightness for the connected load. During autocalibration the dimmer runs through its range and stores the maximum level.

Autocalibration starts when powering on the device.

14. DIRECTLINK

DirectLinks are direct connections between one or more supported devices. A DirectLink will send specific commands to Linked devices when events are triggered on the primary device.

14.1. Setting and Removing DirectLinks

A DirectLink can only be set and removed from the app. If the device has been restored to factory settings, any set DirectLinks are removed.

14.2. DirectLink groups

14.2.1. Transmitting capabilities

DirectLink name	DirectLink description
Brightness	Sends commands based on the brightness level of the dimmer and on/off.
S1	Sends commands based on the S1 button presses.
S2	Sends commands based on the S2 button presses.

14.2.2. Receiving capabilities

DirectLink name	DirectLink description
Brightness	Receive brightness and on/off commands.

15. API

The device features an Open API, enabling integration and remote control over the internet without requiring the use of the "MyHeatit" App. This means the device can be integrated into any system capable of sending and receiving data through an API, allowing developers to build custom solutions and automate interactions using standard HTTP requests.

16. CONFIGURATION PARAMETERS

Heatit products are supposed to work out of the box after inclusion. Some device configuration may, however, alter the functionality to better serve user needs or unlock further enhanced features.

The complete list of parameters can be found on the Heatit Document Center on the relevant device.

17. INDICATOR

The device has an indicator function that will flash the LED as well as control the connected load. This can be used while including to identify a device, and allow for it to be linked to the correct room within the "MyHeatit" App.

18. FIRMWARE UPDATE - OTA

In order to update a Wi-Fi product using the integrated OTA function. The product must be added to the "MyHeatit" App using Wi-Fi, and the product must have access to the Internet.

Go into the settings on the device you want to update and press "Update Firmware" button. This will check if a newer version is available, if there is one, it will be downloaded and installed.

19. SAFETY FEATURES

The device has safety features to ensure safe operation and warn the user of any faults/unexpected behavior.

19.1. Overheating

The device features internal temperature sensors that detect overheating. It warns the user and turns off the output to prevent any damage.

When overheating is detected, the device will:

- Turn off the output.
- Send a notification through the "MyHeatit" App.

19.2. Overload

The device features overload protection. The overload is triggered if the current draw exceeds the device's rated limit.

When overload is detected, the device will:

- Turn off the output.
- Send a notification through the "MyHeatit" App.

20. ERROR CODES

If you encounter an error code, try repowering the device to restart it. If the issue persists, it is recommended to contact an electrician or support for further assistance.

21. PRODUCT INFO

- WiFi (2.4GHz)/BLE
- Open API for integration
- Profiles; Home - Away - Night - Work
- Sunrise/sunset automation
- DirectLink
- 2 or 3-wire
- 5W - 250W LED
- Scene Controller
- 2 switch inputs
- Adjustable Min. dim level
- Maximum dim level autocalibration
- Overload protection
- Short circuit protection
- Surge protection
- Overheat protection
- Google Home, Amazon Alexa
- Power metering
- Firmware update (OTA)

Property	Value
Protocol	Wi-Fi (2.4GHz)/BLE
Rated voltage	230VAC 50Hz
Power consumption	5W - 250W
Ambient temperature	5°C to 40°C
Storage temperature	-30°C to 70°C
Humidity	10% to 85% RH
Screw terminals	Max. 2.5mm ² 2Nm
IP Code	IP20
Size (LxWxH)	45 x 46 x 21mm
Approvals	CE (Link) , Nemko

Working frequency 2.4GHz. Max output power 15.43dBm. The distance between user and products should be no less than 20cm. There is no restriction to use this product across the EU countries.

Hereby, Heatit Controls AS, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

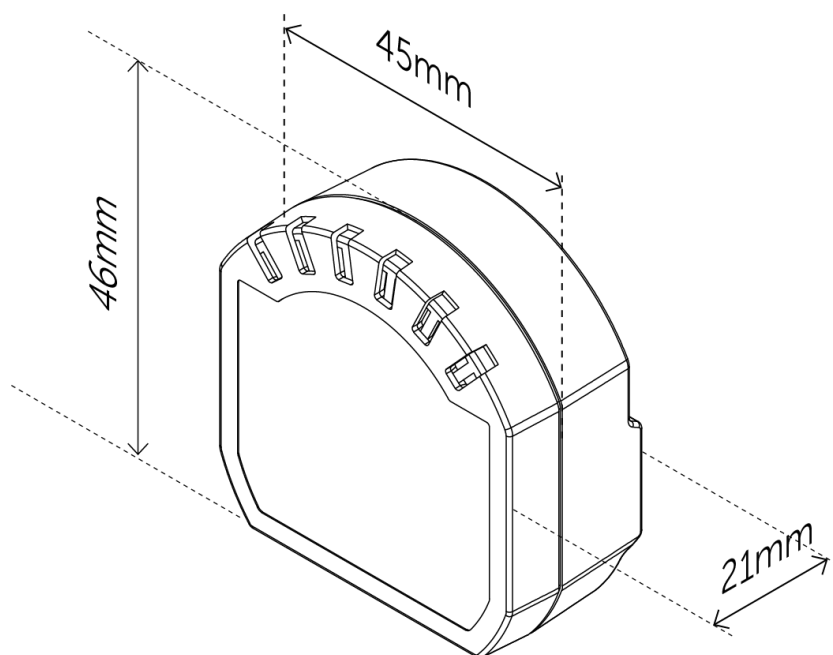
22. MAINTENANCE

The device is maintenance-free. Indoor use only

23. TRANSLATION

Note! This document has been translated using an AI-based translation tool. If you have doubts about its accuracy or there are sections that need to be verified, please refer to the original document in English. If any changes are made to the instructions, the English version will always be updated first and constitutes the valid, up-to-date version of the instructions.

24. DIMENSIONS



25. DISCLAIMER

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



We develop and design our products in accordance with our strict quality requirements (ISO 9001) and environmental requirements (ISO 14001). All electrical installations must be carried out by an authorized electrical installer. The product must be installed in accordance with our installers manual and national building codes. Any wrongful installation, misuse, damage of the product, is not covered under warranty. Updated documentation is available at www.heatit.com and/or documents.heatit.com. Heatit Controls AS can not be held liable for any type of errors or omissions in our product information. Product specifications may change without further notice.

Downtime related to the App or cloud/service platform is not covered by the warranty.