

HEATIT WIFI7



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Wi-Fi Installers manual



White RAL 9003
54 305 45

Black matt
54 305 46



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Get the MyHeatit app for your device here



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



1. INTRODUCTION

Smart thermostat or relay. Heatit WiFi7 is an electronic thermostat designed for electrical heating and water based heating control. The Heatit WiFi7 can also function as a relay, allowing for simple On/Off functionality. The thermostat can be controlled via Wi-Fi or Bluetooth (BLE) using the "MyHeatit" App or with the buttons on the front of the thermostat. The thermostat features a user-friendly interface, and an easy-to-read and clear 14-segment LED display.

Heatit WiFi7 has 3 modes: Heat - Cool and Eco.

It has a sturdy metal frame for secure fastening in the junction box. The thermostat has a built-in room temperature sensor. Two additional external temperature sensors may also be connected.

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, monitor, and organize your connected devices, or control them via a weekly schedule.

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 thermostat can communicate over a local API, allowing the user to integrate it with a local gateway, server, 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 thermostat can connect wirelessly to other devices via DirectLink and BlueFusion. It can be controlled by other thermostats, and it can also control other thermostats and relays.

Heatit WiFi7 features active power metering, providing real-time information about your power consumption. It also allows you to manually set the power metering value when connected to a contactor.

The device is equipped with ZeroX™ technology, which ensures the relay switches at 0V when turning on and off. This technology significantly extends the thermostat's lifespan.

2. ELECTRICAL LOAD COMPATIBILITY

The thermostat is designed specifically for resistive loads. When controlling large resistive, capacitive, or inductive loads, it is essential to use an appropriate contactor to protect the thermostat from excessive load to ensure safe operation.

The thermostat can withstand a resistive load of up to 16A/3600W at 230VAC. For loads above 13A, we recommend using a contactor.

3. 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!

4. 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 sensors.
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 thermostat will display "INCL" when the thermostat is successfully added.

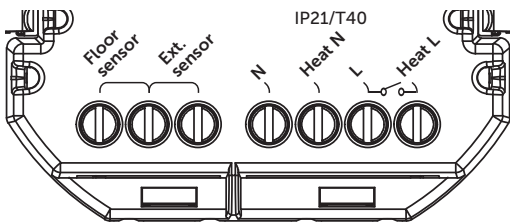
NB! If adding fails, Err (error) will appear in the display.

5. CONNECTIONS

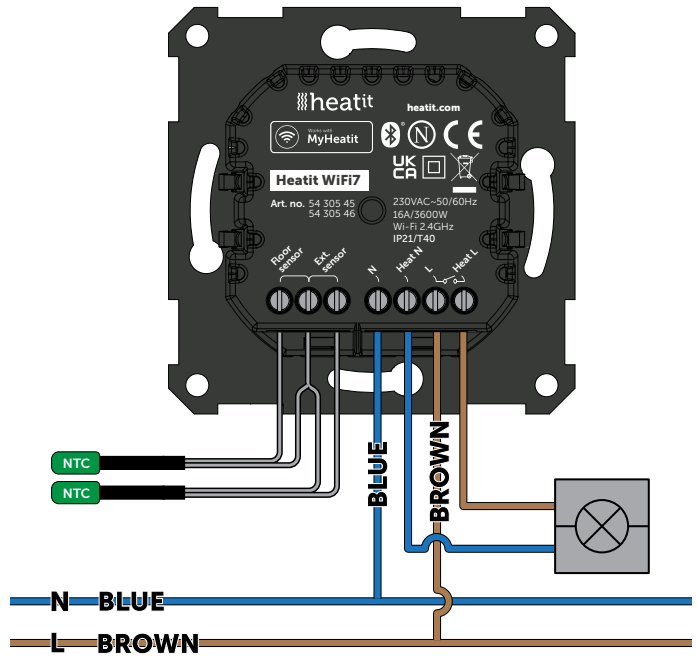
Max tightening torque for terminal screws: 2Nm.

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

The screw terminals are accessible at the back of the device.



- Floor sensor** NTC type 6.8, 10, 12, 15, 22, 33, 47 or 100kΩ. Default 10kΩ.
- Ext. sensor** NTC type 6.8, 10, 12, 15, 22, 33, 47 or 100kΩ. Default 10kΩ.
- N** Power connection (Neutral) 230VAC.
- Heat N** Heating cable N connection.
- L** Power connection (Live) 230VAC.
- Heat L** Heating cable L connection.



6. INSTALLATION

Position the thermostat and mount it into the junction box using 2 screws. Position the thermostat front over the part mounted in the junction box, then carefully press the front until it clicks into place. In order to get power metering values, the load needs to be connected to both heating L + N.

Never change the front from one thermostat to another.

7. THERMOSTAT CONTROLS

ICON	NAME	DESCRIPTION
—	Left	Previous. Decrease set temperature.
≡	Middle	Menu confirm. Menu enable.
+	Right	Next. Increase set temperature.

8. LOCAL SETTINGS MENU

To enter the settings menu, hold the Center button for 5 seconds. The display will show "OFF". You are now in the settings menu. You can now scroll up and down using the Left and Right buttons. Some options have submenus. To navigate the submenus, press the Center button once to enter or exit the submenu. Press the Left and Right buttons to find your desired value and hold the Center button for 2 seconds to confirm your selection. "STOR" will appear to indicate settings are stored.

9. DISPLAY MENU STRUCTURE

See flowchart at the end of this manual.

10. STARTUP

After powering up the device for the first time, all parameters will have default settings, and the thermostat will start by asking which sensor mode should be used.

11. WI-FI NETWORK SELECTION

The device supports 2.4 GHz networks only.

12. 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"

Wi-Fi and Bluetooth

Manual add mode is indicated on the device by rotating LED segments in the display. 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 not shown but is active 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

- Hold the Center button for 5 seconds. The display will show "OFF".
- Press the Down button once to see "CON" in the display.
- Press the Center button and go to "APP".
- Start the configuration mode on the device by holding the Center button for approximately 2 seconds.

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".

13. QR-CODE PLACEMENT

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

14. FACTORY RESET

Enter the menu by holding the center button for about 5 seconds, navigate in the menu with the "+" button till you see "FACT". Press the center button until you see "-- --" blinking in the display, then hold for about 5 seconds to perform a reset. You may also initiate a reset by holding the right and center buttons for 60 seconds.

When either of these procedures has been performed, the thermostat will perform a complete factory reset. The device will display "RES" for 5 seconds while performing a factory reset. When "RES" is no longer displayed, the thermostat has been reset.

15. THERMOSTAT MODE (THERMOSTAT)

The thermostat has 3 modes: HEAT (heating), COOL (cooling), and ECO (energy-saving mode with reduced heating setpoint). You select "HEAT", "COOL" or "ECO" via the MODE menu option, or by adjusting Parameter "Operating Mode (MODE)".

DESCRIPTION	MENU STRUCTURE
Operating mode	MODE

16. FUNCTIONS (WI-FI)

16.1 THER, Thermostat mode

When the device is set to THER, it will operate as a normal thermostat.

Some configuration parameters and menu options are limited to Thermostat mode.

16.2 RELA, Relay mode

When the device is set to RELA, it will work as a relay without any temperature regulation. While it is in Relay mode, the display can be set to show a number of different items.

Some configuration parameters and menu options are limited to Relay mode.

17. STANDBY AND MAIN SCREEN

When the thermostat remains untouched for a while, it will automatically go to the standby screen. The standby will by default show the setpoint temperature.

By pressing any button once, you will see the measured temperature. By pressing the Left or Right button multiple times, you will change the setpoint.

18. TEMPERATURE SHOWN IN DISPLAY

During standby, the display shows the setpoint by default. You can change what is shown by choosing either measured temperature "RELT", or the setpoint "SETT".

You select "SETT" or "RELT" via holding down the middle button for 2 seconds on the "MODE" menu choice, or by adjusting Parameter "Temperature display".

DESCRIPTION	MENU STRUCTURE
Temperature display	Center button 2 seconds on MODE

19. CHOICE OF SENSOR/OPERATING MODE

The thermostat has multiple sensors and sensor modes. This lets you configure the thermostat to work correctly in most installations. The sensor mode/operating is selected from the menu option "OPER", or by setting Parameter "Sensor mode" ("OPER").

DESCRIPTION	MENU STRUCTURE
Sensor mode	OPER

Available sensor modes:

F	Floor sensor
A	Internal room sensor
AF	Internal room sensor + Floor sensor
A2	External room sensor
A2F	External room sensor + Floor sensor
PWER	Power regulator mode (no sensor used)
EXT	External wireless sensor
RELA	Relay functionality

Floor Sensor Requirement and Temperature Limiting

The temperature limits are by default minimum 5°C and maximum 40°C.

Some types of flooring require the use of a floor sensor to ensure that the floor temperature does not exceed 27°C. Refer to the floor manufacturer's manual for specific guidelines.

When the thermostat operates in AF or A2F mode, the floor temperature limiter is automatically set to 27°C (default).

In all other sensor modes (A, F or A2), the temperature limits are set to minimum 5°C and maximum 40°C.

20. EXTERNAL WIRELESS SENSOR (EXT)

The thermostat allows you to choose EXT as a sensor mode. When EXT is chosen, the device uses the temperature received from an external wireless sensor which is linked with the devices through a DirectLink.

If the device detects loss of communication with the DirectLinked device, the thermostat will revert to using a different sensor, or turning Off the thermostat. By default, it will revert to the internal sensor.

You may change what happens on loss of communication by changing Parameter "External sensor fallback".

DESCRIPTION	MENU STRUCTURE
External sensor fallback	—

21. SELECTING SENSOR VALUE

The thermostat allows the selection of multiple different resistance values for the NTC sensors.

Both sensors must use the same NTC value.

The supported sensor values are as follows: 6.8, 10, 12, 15, 22, 33, 47 or 100KΩ. You select "SEN" via the menu option, or by setting Parameter "Sensor value (SEN)".

DESCRIPTION	MENU STRUCTURE
Sensor value	SEN

22. MIN/MAX TEMPERATURES (THERMOSTAT)

The thermostat allows you to set minimum and maximum temperatures for the connected sensors.

You set the "ALO", "FLO", "A2LO" and "AHI", "FHI", "A2HI" values via the "MIN" and "MAX" menu options, or by setting Parameters.

DESCRIPTION	MENU STRUCTURE
Internal sensor min temp limit	ALO
Floor sensor min temp limit	FLO
External sensor min temp limit	A2LO
Internal sensor max temp limit	AHI
Floor sensor max temp limit	FHI
External sensor max temp limit	A2HI

23. CALIBRATION

If the temperature sensor readout is inaccurate, you can correct it by up to ±6°C. You calibrate using the CAL menu option and selecting the appropriate sensor or by adjusting Parameters "Internal sensor calibration (CAR)", "External sensor calibration (CAE)" or "Floor sensor calibration (CAF)". The app and thermostat then shows the calibrated value.

DESCRIPTION	MENU STRUCTURE
Internal sensor	CAR
External sensor	CAE
Floor sensor	CAF

24. BRIGHTNESS

The display brightness for active and standby states are managed separately. You can set the values from the menu using the menu options "BR1" for active display brightness, and "BR2" for standby display brightness under the "BRIT" menu, or by setting Parameters "Active display brightness" and "Standby display brightness". To turn off the display in standby mode, set the "standby display brightness" to 0.

DESCRIPTION	MENU STRUCTURE
Active display brightness	BR1
Standby display brightness	BR2

25. PRINCIPLES OF REGULATION (THERMOSTAT)

The thermostat uses temperature readings from the internal sensor and/or from external wired sensors, it regulates the temperature using either hysteresis (HYST) or PWM based on your choice.

You select "HYST" or "PWM" via the REG menu option, or by setting Parameter "Regulation mode".

DESCRIPTION	MENU STRUCTURE
Regulation mode	REG

25.1 Hysteresis

Hysteresis sets the offsets that are used with the setpoint to determine when the load is switched on and off relative to the measured temperature.

You can adjust the thermostat hysteresis, choosing values between 0.3°C and 3.0°C. The default setting is 0.5°C. When using water-based heating, we recommend a hysteresis of 1.0°C.

You may change the hysteresis by entering the local settings menu and holding the Center button for 2 seconds when "REG" is displayed. Here you can choose values between 0.3 and 3.0. It can also be changed by setting Parameter "Temperature control hysteresis".

DESCRIPTION	MENU STRUCTURE
Temperature control hysteresis	HYST

25.2 Pulse-width modulation PWM

With PWM regulation enabled, the thermostat will regulate based on duty cycles. The thermostat is turned on and off in percentage intervals of the cycle. The amount of time the relay will be on is based on how far the measured temperature is from the setpoint.

26. OPEN WINDOW DETECTION OWD (THERMOSTAT)

Open Window Detection (OWD) is a function which will reduce the thermostat setpoint on detection of an open window. This happens when the temperature sensor registers a rapid temperature drop.

When OWD is activated, the setpoint is reduced to 5°C in order not to waste energy. OWD will automatically be cancelled if it has been active for more than 1 hour, or if the temperature increases by 3°C. OWD can also be cancelled manually by increasing/decreasing the setpoint with the Left and Right buttons.

You enable or disable "OWD" via the OWD menu option, or by setting Parameter "Open window detection".

DESCRIPTION	MENU STRUCTURE
Open window detection	OWD

27. SIZE OF LOAD

The device has power metering, but in some cases, you might want to adjust the measured value, for example if it is connected by contactor. By default, it is set to 0 and it uses the power metering values. You can adjust it in increments of 100W up to 9900W, using the "LOAD" menu option or by setting Parameter "Size of Load".

DESCRIPTION	MENU STRUCTURE
Size of load	LOAD





28. KWH VALUE IN MENU

The device supports power metering to give insight into the power consumption of the device. The total consumption of the device can be seen from the "kWh" menu option. Enter the "KWH" submenu by pressing the middle button once to see the total consumption, hold the middle button for 2 seconds within the "KWH" submenu to reset it.




DESCRIPTION	MENU STRUCTURE
Total Consumption in kWh	KWH

29. DISPLAY ICONS

29.1 Display icons (thermostat)

ICON	DESCRIPTION
	This icon will be displayed while the device is in Heat, ECO and is currently heating.
	This icon will be displayed while the relay is on and the device is in Cooling mode.
	This icon shows the current signal strength.
	This icon shows when it has an active Bluetooth connection.

29.2 Display icons (relay)

ICON	DESCRIPTION
	This icon will be displayed when the relay of the device is turned on.
	This icon shows the current signal strength.
	This icon shows when it has an active Bluetooth connection.

30. CHILD LOCK

Child lock prevents local button operations on the display. Hold the Left and Right buttons for 10 seconds. When enabled, "LOCK" appears on the display; when disabled, "OPEN" is shown.

DESCRIPTION	MENU STRUCTURE
Child Lock	Left and Right buttons 10 seconds

31. DIRECT LINK

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

31.1 Setting and Removing DirectLinks

A DirectLink can be set directly from a device, from the app and from the API. When creating a DirectLink directly from the device, the Link set will depend on the Primary and Secondary device capabilities.

31.2 DirectLink groups (thermostat)

Transmitting capabilities

LINK NAME	LINK DESCRIPTION
Relay control	Control external relays based on the status of the thermostat's relay.
Master thermostat	Send Thermostat mode and Setpoint.

Receiving capabilities

LINK NAME	LINK DESCRIPTION
Slave thermostat	Receive Thermostat mode and Setpoint and regulate based on them.
External wireless sensor	Receive temperature reports from an external temperature sensor, if the sensor mode is set to "EXT", the thermostat will use the temperature to regulate.

31.3 DirectLink groups (relay)

Transmitting capabilities

LINK NAME	LINK DESCRIPTION
Relay control	Control external relays based on the status of the thermostat.

Receiving capabilities

LINK NAME	LINK DESCRIPTION
ON/OFF	Receives ON/OFF commands from another device to mirror the relay state.

For more information, visit



32. BLUEFUSION

BlueFusion is a function that allows Bluetooth-exclusive devices to also communicate on Wi-Fi, enabling them to be controlled via API commands. BlueFusion requires that both a Bluetooth-only device and a Wi-Fi-compatible device are added to the same property in the app. Once added, you can choose which Wi-Fi device the Bluetooth device should use as a communication bridge from an overview in the app.

For more information, visit



33. API

The device features an Open API, enabling integration and remote control over the internet without requiring the use of our 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.

34. 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 document center on the relevant device.

35. INDICATOR

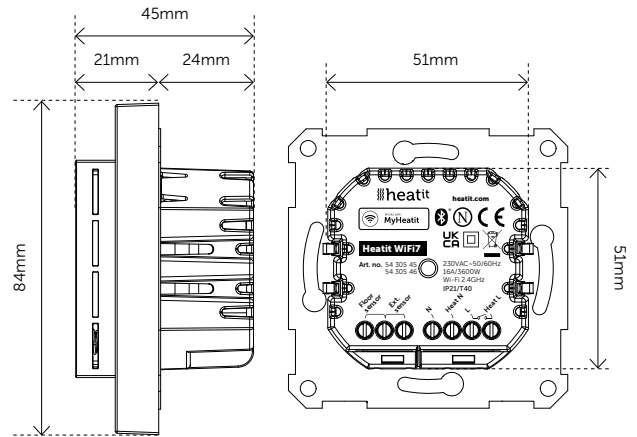
The device has an indicator that will flash the display. This can be used while including to identify a device, and allow for it to be linked to the correct room within the "MyHeatit" App.

36. 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.

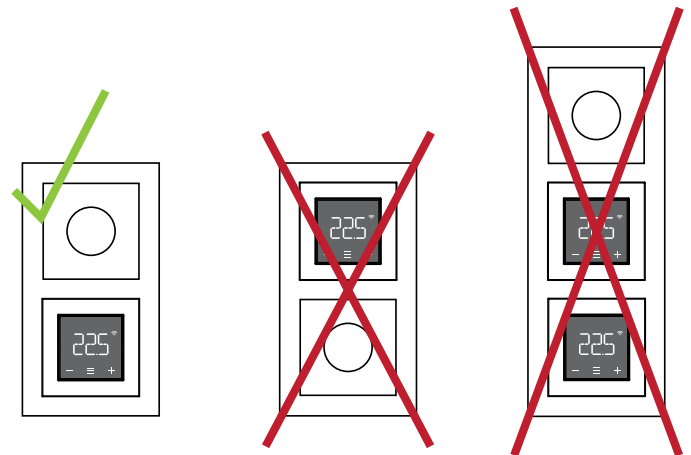
37. DIMENSIONS



38. PLACEMENT IN JUNCTION BOX

When two or more thermostats are mounted too close to each other, the heat they emit, can interfere with the temperature sensors and the temperature in the junction box becomes too high. This can cause inaccurate temperature readings, especially under high load, leading to incorrect heating control. To avoid such issues, thermostats should be installed as far apart as possible and always in separate junction boxes. This ensures more accurate temperature readings.

In multi-frames with multiple units, the thermostat should always be mounted at the bottom, and no more than one thermostat should ever be installed in a multi-frame.



39. SAFETY FEATURES

The device has safety features to ensure safe operation and warn the user of any faults/unexpected behavior. The device has an Overheat and Overload function. If the thermostat registers an Overheat or Overload incident, the thermostat will switch off and an error will appear in the display.

39.1 Overheating

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

When overheating is detected, the device will:

- Turn off the relay.
- Display Err6 in the display.
- Send a notification to the "MyHeatit" App.

39.2 Overload

The device features a 16A overload protection. The overload is triggered if there is a current draw of more than 16A.

When overload is detected, the device will:

- Turn off the relay.
- Display Err7 in the display.
- Send a notification to the "MyHeatit" App.

39.3 Sensor failure

The device has the ability to detect when there is no sensor connected or the sensor is broken or otherwise defective, causing an open circuit.

When the device detects the sensor error, the device will:

- Turn off the relay.
- Display an error in the display, changes based on which sensor is not connected/faulty.

To clear the "Sensor not connected" error the device has to be disconnected from the mains, and the wiring and sensor(s) need to be checked. When the fault is resolved the mains can be reconnected and the device will function normally again.

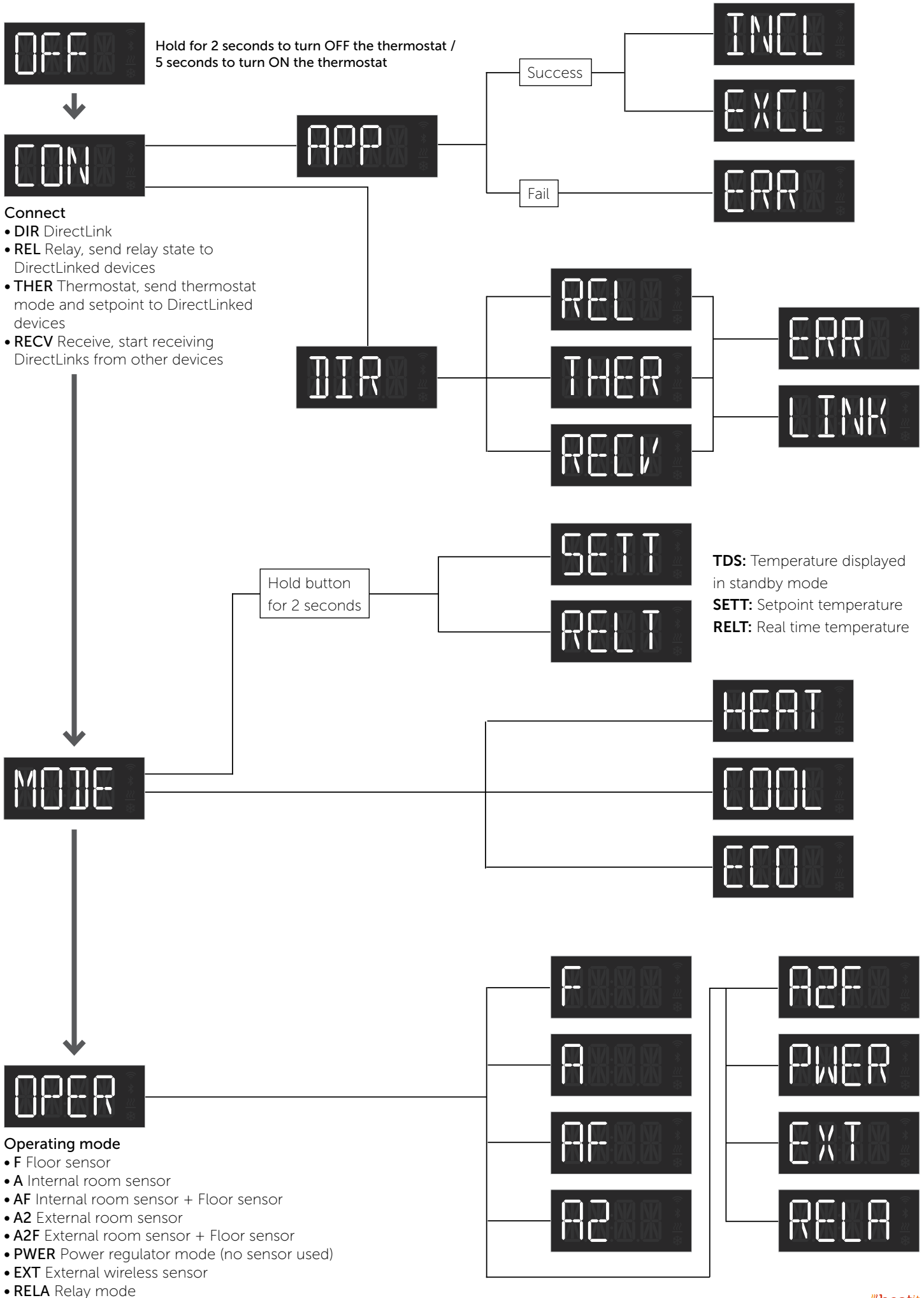
40. ERROR CODES

If you encounter an error code, try removing and reattaching the front of the thermostat to restart the device. If the issue persists, it is recommended to contact an electrician or support for further assistance.

Err	Adding fail. See chapter "Add/Remove".
Err1	Internal error. Most probably a faulty unit. Contact support.
Err2	Radio error. Most probably a faulty unit. Contact support.
Err3	Internal error. Most probably a faulty unit. Contact support.
Err4	Floor sensor error. You have chosen F, AF or A2F sensor mode without having a floor sensor connected, or the sensor may be damaged.
Err5	External sensor error. You have chosen A2 or A2F sensor mode without having an external sensor connected, or the sensor may be damaged.
Err6	Overheating. Contact your electrician.
Err7	Overload. Contact your electrician.

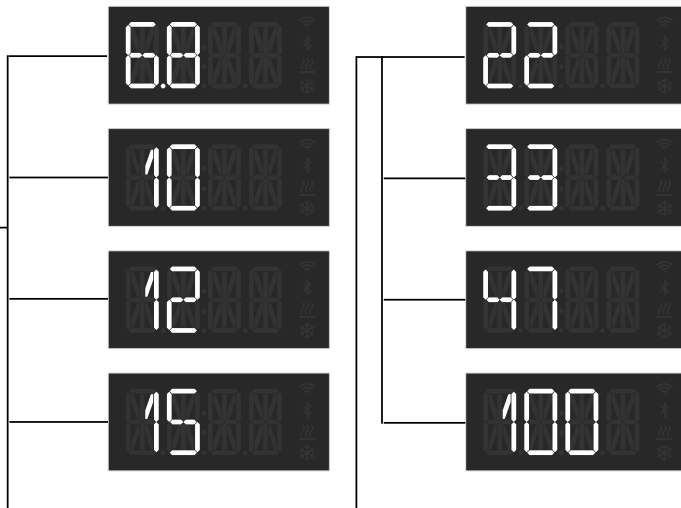
40. CHART - DISPLAY MENU STRUCTURE

Hold the middle button for 5 seconds to enter menu.



SEN

Sensor value



MIN

Minimum temperature limit

- ALO Air sensor low limit
- FLO Floor sensor low limit
- A2L External wired sensor low limit

Only shows available options



MAX

Maximum temperature limit

- AHI Air sensor high limit
- FHI Floor sensor high limit
- A2H External wired sensor high limit

Only shows available options



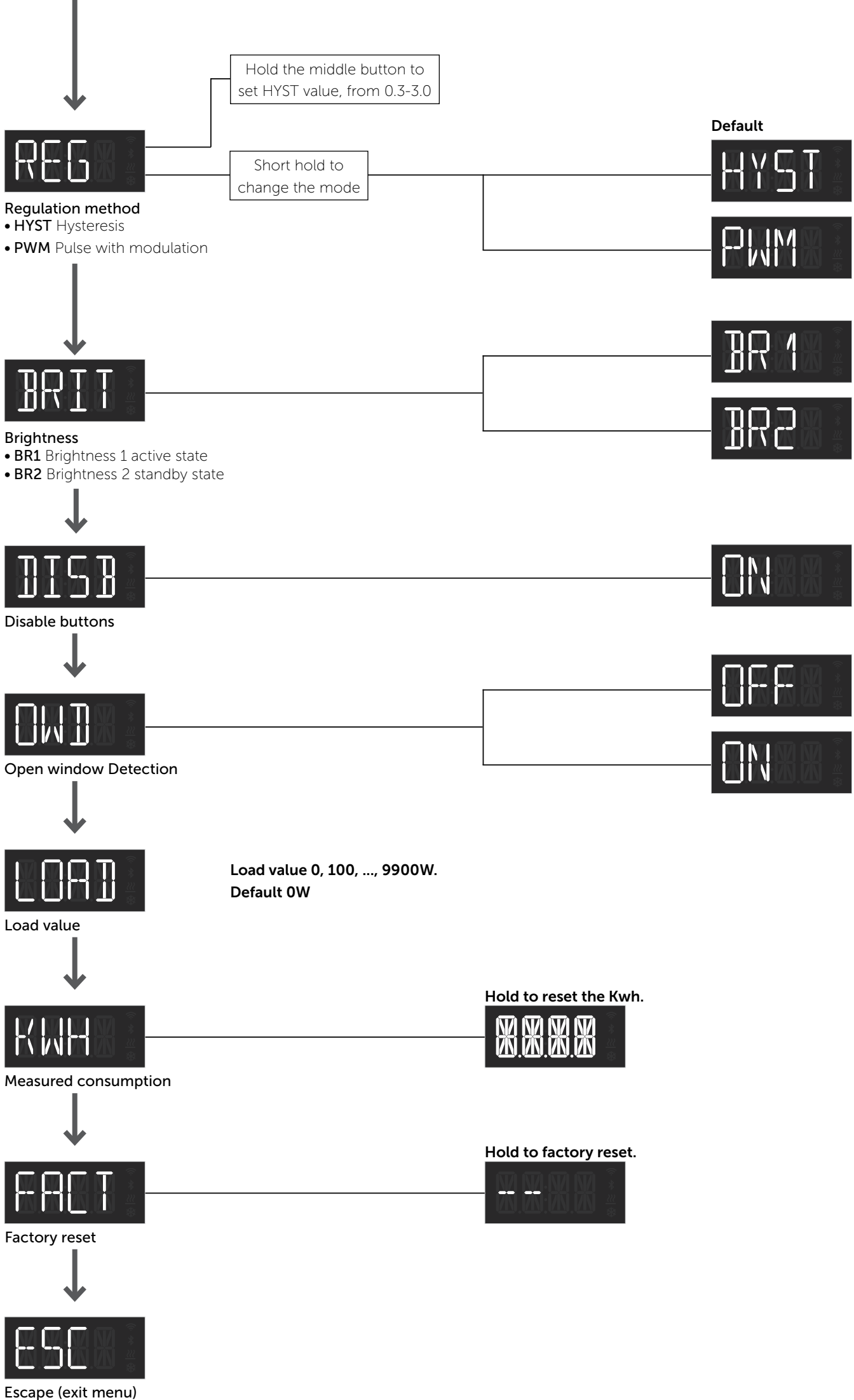
CAL

Calibration









- CAR Calibration Room sensor
- CAF Calibration Floor sensor
- CAE Calibration External sensor

Only shows available options





40.1 Error messages in display

	Failed to include
	Internal error
	Radio error
	Internal sensor error
	Floor sensor error
	External sensor error
	Overheat
	Overload

40.2 General display messages

	Childlock activated
	Childlock disabled
	Settings stored

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.

PRODUCT INFO Heatit WIFI7

FEATURES

- Wi-Fi (2.4GHz)/BLE
- Open API for integration
- Profiles; Home - Away - Night - Work
- DirectLink/BlueFusion
- 14-segment LED display
- Internal room sensor
- External room sensor (wired by cable)
- Floor sensor
- 3 modes: Heat - Cool - Eco
- Relay functionality
- Power regulator
- Temperature limiter
- Temperature calibration
- Hysteresis/PWM
- ZeroX™ detection
- Open window detection
- Relay status icon
- Adjustable display brightness
- Single poled switch
- Lock mode/child lock
- Overload protection
- Overheat protection
- Google Home, Amazon Alexa (pending)
- Weekly schedule in app
- Active power metering
- Firmware update (OTA)

TECHNICAL DATA

Protocol	Wi-Fi (2.4GHz)/BLE
Rated voltage	230VAC 50Hz
Max load	3600W 16A (resistive load)
Max current	16A
Power consumption	<2W
Power regulator	Time cycle 30 min.
Ambient temperature	5°C to 40°C
Regulation temperature	5°C to 40°C
Storage temperature	-30°C to 70°C
Hysteresis	0.3°C to 3.0°C (default 0.5°C)
Humidity	10% to 85% RH
Compatible with NTC-sensor with values	6.8, 10, 12, 15, 22, 33, 47 or 100kΩ @ 25°C
Length NTC sensor	Max. 50 meters
Screw terminals	Max. 2.5mm ² 2Nm
IP Code	IP21
Size (LxWxH)	84 x 84 x 45.5mm
Approvals	CE (Link) , Nemko

Working frequency 2.4GHz, Max output power 20dBm. 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 another relevant provisions of Directive 2014/53/EU.

MAINTENANCE

The device is maintenance-free. Indoor use only.



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