

HEATIT WIFI

Installers manual

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#heatit



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1. INTRODUCTION

Heatit WiFi thermostat is an electronic thermostat for electrical underfloor heating. The thermostat has a simple user interface and can be easily programmed via the capacitive buttons. The color screen displays an accessible user interface. The thermostat has a built-in WiFi chip that allows you to control it from a user-friendly app. The "Heatit WiFi" app is available on Google Play and in the App Store. Works with Amazon Alexa and Google Home (pending). If you are installing multiple thermostats in the same house, you may copy the settings from one thermostat to the next. This simplifies installation.

Heatit WiFi thermostat 16A is equipped with a single-pole switch and fits into most common frames (e.g. System 55, Elko RS16, Schneider Exxact). The thermostat can withstand a load of max 16A/3600W at 230VAC. We recommend a contactor for loads above 13A. The thermostat may be connected to an external sensor.

The thermostat is designed for electrical heating.

2. INSTALLATION

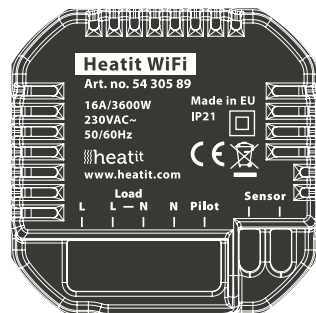
Installation must be done by a qualified electrician in accordance with the national building codes. Before installation, disconnect any power to the device mains. During installation of the device, power to the device must be disconnected AT ALL TIMES!



Release the front cover by pressing e.g. a screwdriver gently into the ejector latch at the bottom of the thermostat.

Now connect the wires to the thermostat terminals:

L	Power connection (Live)
LOAD (N)	Heating Cable connection (Neutral)
LOAD (L)	Heating Cable connection (Live)
N	Power connection (Neutral)
PILOT	Pilot Wire (if applicable)
SENSOR	Floor temp sensor, NTC type



Wires must be stripped 9-10mm. Wires can be released by pressing the connector's release switch. Floor sensor must be placed into a protective tube when used in concrete. Make sure there is no water in the tube. Next, position the thermostat and fasten it onto the wall mounting box using 2-4 screws. Open the frame retaining spring, position the frame and close the spring. Then attach the front part, making sure the connector between the front and bottom parts are correctly placed. Press the front part until it snaps in place. The front part may later be removed by pressing the ejector latch.






3. STARTUP

After connecting the power to the thermostat for the first time or after performing a factory reset, the startup wizard will prompt the following questions:




Language	Set language
Set timezone	Timezone compared to GMT
Daylight saving	Daylight saving in use Y/N
Date & time	Set current date & time
Thermostat use	Heating or Cooling
Heating system	Floor (Slow), Floor (Fast), Other (Fast)
Floor type	Concrete or wooden
Floor Temp limit	5°C - 40°C (concrete) or 5°C - 27°C (wood)
Choice of sensor	Room/Floor
Gradual Heating	ON or OFF - used with new concrete floors to limit temperature rise time. Only in floor sensor mode.

Note: Wooden floors require a floor sensor to be connected, in order to set the floor temperature limit to 27°C.


4. SYMBOLS

 Home	 Away
 Power regulation	 Anti-frost
 Week schedule	

4.1 Operation mode

 Heating enabled	 Cooling
 Cooling enabled	

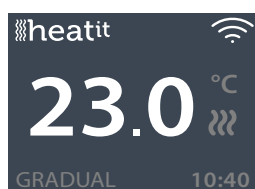
4.2 Heating/Cooling Active

 Wooden floor has reached the maximum temperature of 27°C, thus heating is being limited.

4.3 Note

Gradual heating

Gradual heating will raise the temperature slowly over the course of 20 days. This is mainly user for new installations.



5. CONTROLS

The thermostat is controlled by three touch sensitive buttons:

- Left (Up)
- Center (Confirm)
- Right (Down)

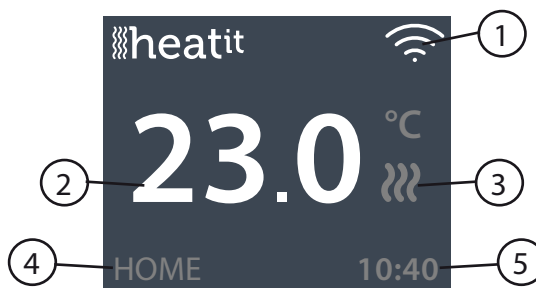
Each button has its own background light. When the background light is lit on a button, the button is available for use.

Tip: Holding the left button for 2 seconds at any time will make a quick return to the main screen.

Tip: While browsing the thermostat menu, pause at any menu item for a moment, and a help text will be shown. This help text gives useful information and guides the user through the functions related to that menu item. The help text delay can be adjusted under "Settings" in the main menu.

6. STANDBY AND MAIN SCREEN

If the thermostat is not touched for a while, it will automatically go to standby screen. While in standby, touching any of the buttons will display the main screen below:



1. WiFi indicator
2. Measured temperature
3. Heating switched on/off
4. Operation mode
5. Time

In the main screen, pressing the center button will access the main menu. Pressing the left or right button will change the set temperature.

7. MENU ITEMS

The main menu has the following items:

Operation Mode	See point 8: "Operation Mode"
Schedule	See point 9: "Weekly schedule"
Settings	Adjust the settings
WiFi	Adjust WiFi settings
Energy consumption	Show energy consumption
Child Lock	Activate lock
Info	Thermostat information
Shut down	Switch thermostat on/off

Tip: "Energy Consumption" shows consumption statistics over different time periods. Press center button to reset statistics.

Tip: Select "Child Lock" and press center button three times to activate/deactivate the lock.

8. OPERATION MODE

The thermostat has three main modes: Home, Away and Weekly schedule. The additional modes are Anti-frost and Power regulation.



Home

Preset temperature while you are at home. The temperature setting may be changed and automatically saved.



Away

Preset (reduced) temperature while you are away. The temperature setting may be changed and automatically saved. An external pilot signal will also change operation mode between Home and Away.



Weekly schedule

The thermostat follows the settings in the Schedule menu. Programming may also be done through the phone app.



Anti-frost

This mode lowers the setpoint to 7 degrees. This may be used e.g. in a summer cottage during winter time to prevent frost damage.



Power regulation

Engineering mode which operates without feedback from sensors. Relay conduction time is selected e.g. 20% relay is ON 20% and 80% OFF during the cycle time. Cycle repeats automatically.

9. WEEKLY SCHEDULE

Create customized daily schedules to minimize energy consumption and maximize comfort. The user can define up to five setpoints per day. A setpoint gives a target set time and a target set temperature for the thermostat to regulate automatically. You may view your daily heating schedule in this menu. Setpoints may be added and removed according to your preferences.

Tip: Create a daily schedule for a weekday according to your preferences. Then use the copy/paste function to duplicate the given day's schedule to other weekdays.

10. HEATIT WIFI ZONES

All thermostats are added to zones. Zones can control multiple thermostats at a time.

If there is only one thermostat in a zone, the zone settings will adhere to changes made locally on the thermostat. If there are multiple thermostats in a zone, the changes made locally on one thermostat will make that thermostat enter custom settings mode. When in custom settings mode the thermostat will not receive updates from the zone. You can still control the thermostats individually in the app. To make the thermostat adhere to the zone settings again, you will have to set it back to zone settings in the app.

11. ADVANCED SETTINGS

WARNING: Advanced Settings is recommended only for expert users. Consult your supplier or use with extreme caution! Incorrect settings may damage your floor or heating system!

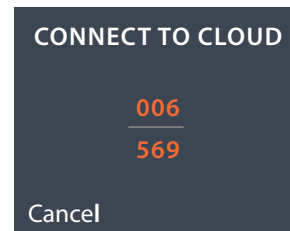
Advanced settings menu has the following items:

Heating setup	Change heating or cooling
NTC sensor	Change NTC type
Hysteresis	Change temperature variation (not in slow floor mode)
Calibration	Fine tune temperature measuring
Temperature limits	Set limits for room and floor temperature
Pilot wire	Change pilot wire setting
Adaptivity	See description below!
Factory reset	Perform full factory reset
Restart device	Perform reboot

Adaptivity: The thermostat will automatically start/stop heating proactively to reach the set temperature at the set time. If adaptivity is switched off, the thermostat will start/stop heating at the set time instead of operating proactively to reach the set temperature at the set time.

12. WIFI SETTINGS

When the thermostat is not connected to the cloud, "Connect to cloud" can be started from WiFi settings menu. The connection is made using the phone application "Add thermostat". The thermostat will show two 3 digit PIN codes that must be copied to the phone application. The password for the selected WiFi network will be given in the phone application. When the "Add Thermostat" operation is finalized, the thermostat will reboot.



After the thermostat is connected to the cloud, the WiFi settings menu will offer the option to turn WiFi OFF/ON. Existing WiFi settings will be used when turning WiFi back to ON.

To change the WiFi network or password please use the "Connect to cloud" menu along with the "Reconfigure WiFi" menu in the phone app.

13. PHONE APPLICATIONS



Heatit WiFi

Ouman Oy Ltd



App Store



Play Store

PRODUCT INFO Heatit WiFi Thermostat



FEATURES

- Floor sensor or external sensor
- Internal room sensor
- Power regulator
- Adaptive regulation
- Temperature limiter
- Weekly schedule
- Home/Away/Anti-frost
- Control via app
- Alarm/notifications in app
- Firmware update (OTA)
- Energy calculator
- Single pole switch
- Lock mode/Child lock
- Calibration
- Amazon Cloud
- Norwegian/Swedish/English/Finnish/Dutch languages

TECHNICAL DATA

Protocol	WiFi 2.4GHz 802.11bgn
Display	1.8" TFT, 128x160 resolution
Rated voltage	230VAC 50Hz
Max load	3600W (resistive loads only) Recommends contactor for loads higher than 13A
Max current	16A
Power consumption	<2W
Ambient temperature	2°C to 30°C
Temperature range	5°C to 40°C
Hysteresis	0.2°C to 2°C (0.5°C standard)
Compatible with NTC sensors with value	6.8, 10, 12, 15, 22, 33, 47, 100 kΩ @ 25°C
IP Code	IP 21
Approvals	CE EN 60730-1:2016, EN 60730-2-9:2019, ETSI EN 300 328 V2.2.2, RoHS 2011/65/EU, LVD 2014/35/EU

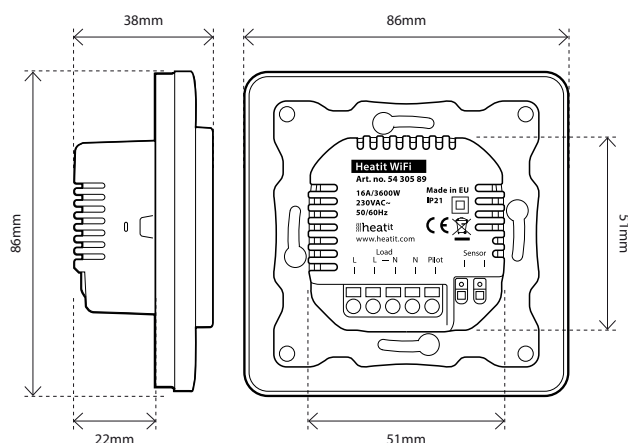
Approved for use in bathrooms.

TERMINAL

Use 1.5mm² or 2.5mm² according to load.

MAINTENANCE

The device is maintenance-free, but must never be covered.



ART. NO.	PRODUCT	COLOR
54 305 89	Heatit WiFi Thermostat	White RAL 9003