

INNGENSO
Thermostat
Manual

IT IRWiFi v2 | EN

...step by step



The IT IRWiFi v2 thermostat is designed to control Infrared heating systems, but can also be used for any other electrical heater. Unlike standard home thermostats, IT IRWiFi v2 has two or more separate and wirelessly connected units (thermostat + receiver(s)) and the mobile application Inn-genso that allows monitoring and controlling of the heating system.

The receiver is a switching device used to connect heating systems, and a thermostat is a portable control unit for handling and setting the temperature. The units communicate with each other using a radio signal. The receiver also communicates with the mobile app using WiFi. The advantage of the system is the variability and easier availability of temperature control.

Important notes

- Read the user manual not only for the thermostat, but also the heating system.
- Turn off the power supply before installing the thermostat.
- We recommend installation by a qualified technician.
- Be aware of the required standards for installation.
- The electrical circuit should be secured with a fuse that does not exceed 20 A.

Specifications

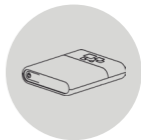
Thermostat

Power supply	3 V DC, 2 AA batteries
Mounting	Wall or portable
RF Communication	868 MHz, *CS, FEC
Manual control	Full
Frost protection	Yes
Window open detection	Yes
Weekly mode	Yes
Sensitivity	0.5 °C
Temperature setting	5 °C – 35 °C
Temperature measurement	5 °C – 40 °C
Dimensions	86 x 86 x 29 mm



Receiver

Power supply	230 V AC
Maximum switching power	2000 W (At 70 °C)
Output/Input	Lin, N, PE, Lout, N, PE
Communication frequency	868 MHz and 2.4 GHz
Dimensions	120 x 90 x 25 mm
WiFi	2.4 GHz
Data encryption	TLS (SSL)
Ingress protection rating	IP20
Operating temperature	0 °C – 70 °C
Maximum number of receivers	6



Mobile app

Hysteresis settings	0.2 °C – 5 °C
Temperature sensor calibration	-5 °C – 5 °C
Weekly mode	Yes
Platform	Android 7.1 / iOS 5 or higher
Download and update	Free



* Checksum, Forward error correction

Safety

Risks due to poor handling

Due to poor handling of the product you can harm yourself and cause material damage.

- Read the accompanying instructions carefully, especially the chapter on safety and important notes.

Danger of malfunctioning


- Ensure that the air in the room can circulate freely around the thermostat and that the thermostat is not covered by furniture, curtains and other objects.
- Only operate the heating system if it is in technically perfect condition.

Behaviour in case of loss of wireless communication

Low voltage in the batteries that power the thermostat may result in interruption of wireless communication. In the event of a loss of wireless communication between the receiver (heating system switching unit) and the thermostat (room control unit):

- On the receiver: yellow light is blinking.
- On thermostat's display: time and current temperature are shown. The symbol "--" is shown instead of the set temperature.

If the battery icon is shown on the thermostat that means that the batteries have reached the voltage limit for which the device can operate without any problem. In this case it is highly advised to replace the current batteries with new ones. The thermostat can still function with these batteries, but it is much more error-prone.

 **NOTE:** In case when communication is lost, the receiver immediately switches off the heating. After that, the heating can be turned on via the mobile app by applying a set temperature higher than 5.0 °C.

When the power supply comes back after the power outage the receiver remains in its last state. If after 12 minutes the communication with the thermostat is not established, it will turn off the heating. In this case the heating can be turned on and controlled only via mobile app by setting the set temperature higher than 5.0 °C.

Freezing damage due to too low room temperature

If the room temperature is set too low in some rooms, the heating system can be damaged due to freezing:

- Ensure that during the frost period the heating system remains in operation and that all rooms during your absence are sufficiently heated.
- Default frost protection temperature is 5 °C and can be changed in the range from 0 to 17 °C. Frost protection can be enabled or disabled via mobile app.

Proper use of the device

Improper use can result in health and life hazards to the plant operator or third parties.

This product is not intended for use by people (including children) with limited physical, sensory or intellectual abilities or people without experience and / or knowledge, unless they are under the supervision of a person in charge of their safety or have been instructed by that person to use the product.

Children must be supervised to ensure that they do not play with the product.

Intended use includes:

- Following the included instructions for use, installation and maintenance of the device, as well as all other system components.
- Compliance with all inspection and maintenance requirements stated in the instructions.

This thermostat can be used to control an electrical heating system. It's especially suited to control an infrared heating panel/radiator.

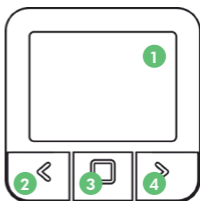
Use that is different from the one described in this manual or use that goes beyond the scope of the use described here will be considered as non-intended.

It is not intended for any direct commercial or industrial use.

Overview of command elements

Room thermostat

1. Display
2. Left button for decreasing the value
3. Middle button for confirmation of selection
4. Right button for increasing the value



Receiver

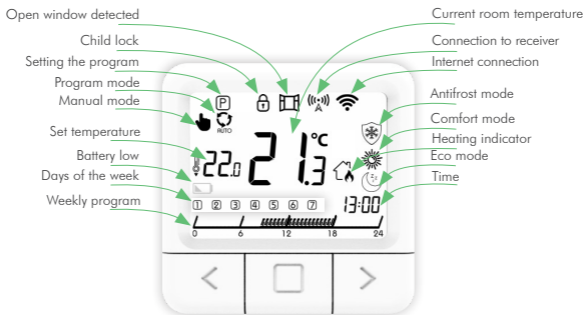
1. Receiver ON/OFF/Auto Button
2. RGB light signal indicators



- RED - Heating request is active
- GREEN - Device is turned on but there is no heating request
- BLINKING BLUE - Bluetooth Connect mode
- BLINKING YELLOW - There is no communication between the thermostat and the receiver
- BLINKING GREEN - Receiver is in pairing mode
- BLINKING PURPLE - RF hardware fault

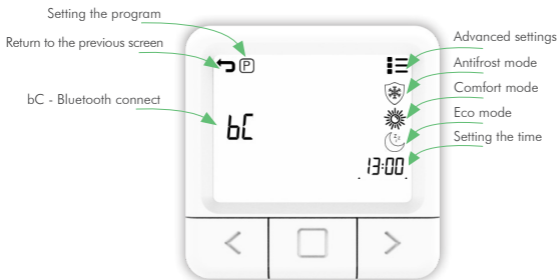
Display description

Description of the basic display



Overview of the basic functions

Description of the settings display



Overview of the functions on the settings display


Temperature setting

1. Press the RIGHT button to increase the set temperature.
2. Press the LEFT button to decrease the set temperature.

Setting the working mode

There are 4 working modes of the thermostat: SYSTEM OFF mode, MANUAL mode, PROGRAM mode and ANTIFROST mode. To access each mode you need to press on the middle button until the icon you wish to set the temperature of, appears on the top of the screen. To better understand read appears through explanations coming in the following pages.


SYSTEM OFF mode

1. Press the middle button to enter MANUAL mode.
2. The upper left end of the screen shows the symbol  of.
3. While thermostat is in MANUAL mode press and hold LEFT button decrease temperature to minimum 7 °C.
4. Press and hold LEFT button for 5 sec. to enter SYSTEM OFF mode.
5. To exit SYSTEM OFF mode press and hold MIDDLE button for 5 sec.



OFF mode is active


Manual mode

1. Briefly press the middle button.
2. The upper left end of the screen shows the symbol .
3. MANUAL MODE successfully activated.



Manual mode is active


Program mode

1. Briefly press the middle button.
2. The upper left end of the screen shows the symbol .
3. PROGRAM MODE successfully activated.



Program mode is active

Antifrost mode

1. Briefly press the middle button.
2. The upper right end of the screen shows the symbol .
3. ANTIFROST MODE successfully activated.




Antifrost mode is active

The settings display

1. Hold down the MIDDLE button for 5 seconds until the settings display shows.
2. Release the MIDDLE button (See the picture illustrated on page 9.).

Setting the Eco temperature

1. Open the SETTINGS display.
2. Navigate with the RIGHT and LEFT button until you reach the Eco symbol  and briefly press the CONFIRM button (middle button) to enter the Eco setting.
3. Press the left or right button and set the desired temperature.
4. Eco temperature can be changed in the range from 10 to 30 °C.



The screen for setting the Eco temperature


Setting the Comfort temperature

1. Open the SETTINGS display.
2. Navigate with the RIGHT and LEFT button until you reach the Comfort symbol ☀ and briefly press the CONFIRM button (middle button) to enter the Comfort setting.
3. Press the left or right button and set the desired temperature.
4. Comfort temperature can be changed in the range from 15 to 35 °C.



Overview of the screen for setting the Comfort temperature

Setting the Antifrost temperature

1. Open the SETTINGS display.
2. Navigate with the RIGHT and LEFT button until you reach the Antifrost symbol  and briefly press the CONFIRM button (middle button) to enter the Antifrost setting.
3. Press the left or right button to set the desired temperature.
4. Antifrost temperature can be changed in the range from 0 to 17 °C.



Overview of the screen for setting the Antifrost temperature

Bluetooth Connect Mode

Bluetooth Connect allows easy connection of the thermostat to the Internet via the WiFi chip, which is embedded in the receiver. The device has an option of changing the WiFi network in Bluetooth Connect mode. Please make sure that the network you want to connect your device to is 2.4 GHz.

1. Open the SETTINGS display.
2. Navigate with the RIGHT and LEFT button, until you reach the “bC” option.

- When "bC" is flashing, press the CONFIRMATION BUTTON (middle button) and hold it for 5 seconds.
- Now only the bC in the center should flash on the screen.
- Open the mobile application and click on the + symbol at the bottom of the screen.
- Click Bluetooth Connect.
- After setting up the router, mark it as set up and continue.
- When you have already entered bC mode, that is when the bC symbol is flashing, tick and continue.
- Enter the password for the WiFi network to which your mobile device is connected. If the phone is not connected to a WiFi network then you will need to input SSID (the name of the network you want to connect the device to) and the password of that network.
- Click CONNECT and wait.
- A message about the connection status of the device will be printed on the screen of the mobile application.





bC option when entering the Settings menu



Symbol bC starts to blink when entering the Bluetooth Connect mode

Setting the weekly program

Program can be set for each day in a week separately. The program bar will show the current program. Icons ANTI-FROST/ECO/COM and the set temperature will show which one of them is active for the selected half an hour.

1. Open the SETTINGS display.
2. Press the left or right button to navigate to the symbol , select program symbol  and press and hold the middle button to enter the program setting.
3. Navigate to the DAY, select the DAY for which you want to set the program and click the middle button. The days Monday to Sunday are represented by the numbers 1 to 7, respectively.
4. Press the LEFT or RIGHT button to change for which half an hour you want to set the temperature.
5. Press the MIDDLE button to change between ANTIFROST/ECO/COM temperature for the selected half hour.
6. Repeat steps 4 and 5 for each hour in a day.
7. Repeat all steps for each day of a week.
8. Hold the MIDDLE button to confirm program settings and enter settings main screen.

NOTE: Thermostat will then save the program for each day (takes 1 minute) and the program will be shown setting screen.



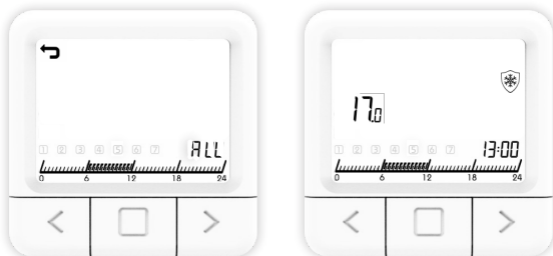
Overview of settings main screen | Overview of weekly program setting

Setting the All Days program

The All Days program gives you the possibility to set program for all days in the week with the ALL option shown on screen at next page. Icons ANTIFROST/ECO/COMFORT and the set temperature will show which one of them is active for the selection.

1. Open the SETTINGS display.
2. Press the LEFT or RIGHT button to navigate to the symbol , select program symbol (P) and press and hold the middle button to enter the program setting.
3. Press the LEFT or RIGHT button, select the ALL icon for setting the program and shortly press the middle button.
4. Press the LEFT or RIGHT button to change for which half an hour you want to set the temperature.
5. Press the MIDDLE button to change between ANTIFROST/ECO/COM temperature for the selected half hour.
6. Repeat steps 4 and 5 for each hour in a day.
7. Hold the MIDDLE 5 seconds button to save the program for whole week.

NOTE: Thermostat will then save the program for each day (takes 1 minute) and the program will be shown setting screen.



Overview of All Days program setting

Setting the time

Setting the time is only enabled if the device does not have an internet connection. Otherwise, time is synchronized with internet time.

1. Open the SETTINGS display.
2. Navigate with the RIGHT and LEFT button until you reach the time symbol and briefly press the CONFIRM button (middle button) to enter the clock setting.
3. Navigate RIGHT and LEFT button to set the day, then set the current DAY and briefly press the CONFIRM button (middle button).
4. Navigate RIGHT and LEFT button to set the clock, then set the current CLOCK and briefly press the CONFIRM button (middle button).
5. By pressing the RIGHT and LEFT button, set the current MINUTE and briefly press the CONFIRMATION button (middle button).
6. Use the RIGHT and LEFT button to navigate to the symbol to exit the SETTINGS display, then press the CONFIRM button (middle button).



Overview of time setting

ADVANCED settings

In advanced settings, there are settings for SP SmartPairing and FS Factory setting. In the next couple of pages each setting will be explained in details.

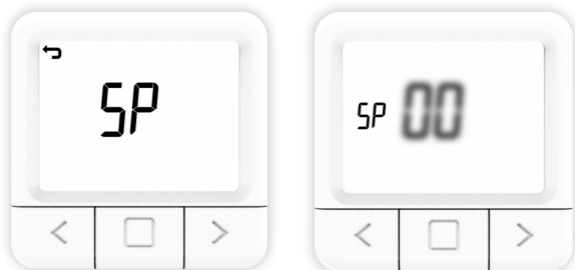
SmartPairing mode

SmartPairing allows easy connection of the thermostat with up to 6 receivers.

1. Open the ADVANCED SETTINGS display.
2. Navigate with the RIGHT and LEFT button until you reach the "SP" option.
3. When "SP" flashes, press the MIDDLE button and hold it for 5 seconds.
4. Now it should show the symbol SP on the side, and 00 will flash on the screen in the center, until it finds the device. When the device is found, it shows 01.
5. Start SP mode on the receiver by pressing and holding the button until the green light signal appears.
6. Release the button on the receiver on the green light signal and then the green light will flash.
7. You have now entered SP mode on both devices and you need to wait until the devices are paired with each other.
8. The connection status of the device is known when the lights are no longer flashing but the lights are steady green and the thermostat displays the home screen.

In case of adding another receivers that was already added

to the network, we need to reset the desired receiver to factory settings which will be explained in the next few pages.



Symbol SP starts to blink when entering the SmartPairing mode.

Factory reset

Factory reset sets all values of the thermostat to their initial state, as well as unpairs the thermostat with all the paired receivers.

1. Open the ADVANCED SETTINGS display.
2. Navigate with the RIGHT and LEFT button until you reach the FS symbol.
3. Hold down the MIDDLE button for 10 seconds.
4. Now only the FS in the center should flash on the screen.
5. Wait for the thermostat to restart.
6. Successful restore to FACTORY SETTINGS.



Overview of Factory reset on the thermostat

Description of receiver working modes

ON mode

The receiver is turned on regardless of the set value on the thermostat (overheating protection is active in the background)

OFF mode

The receiver is turned off regardless of the set value of the thermostat (if the ANTIFROST option is enabled on the receiver, the receiver will turn on to maintain its temperature at 5 °C)

AUTO mode

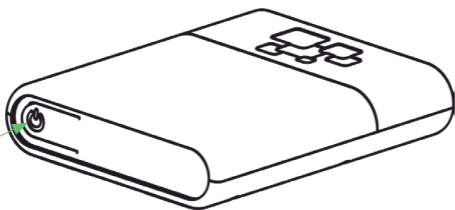
The receiver follows the default commands on the thermostat (in the background there is active protection against heating as in the ON mode, and if the ANTIFROST option is enabled on the receiver the receiver will turn on to reduce its temperature to 5 °C as in the OFF mode)

SYSTEM OFF mode

This operating mode automatically switches all receivers to AUTO mode, and switches them to the off state. If the receiver's freeze protection is activated, the receiver will turn on when the temperature drops below 5 °C. If it is deactivated, the system shuts down completely.

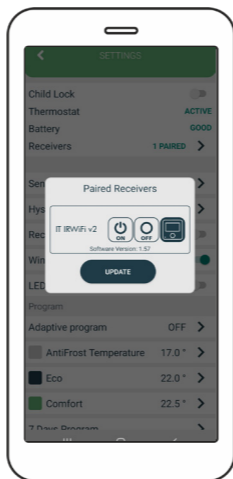
Operating via receiver

- When the receiver is in normal operation mode (AUTO MODE), by clicking on the ON/OFF button, the receiver turns off and goes to OFF MODE.
- If we want to turn AUTO MODE on the receiver, to change the state from OFF MODE, it is necessary to click twice on the ON/OFF button.
- If the receiver is in ON MODE, it is necessary to press the ON/OFF button once to change the state to OFF MODE, and then press the ON/OFF button again to change the state to AUTO MODE.
- When the thermostat is in SYSTEM OFF mode, by pressing the ON/OFF button on the receiver, we exit from OFF MODE to enter MANUAL MODE. (SYSTEM OFF mode is a mode whose state changes apply to all receivers that are connected to that thermostat)
- If we want to start Bluetooth Connect via the receiver, it is necessary to hold the ON/OFF button until the blue color appears on the receiver and then release the button.
- If we want to start SmartPairing mode via the receiver, we need to hold the ON/OFF button until the green color appears on the receiver and then release the button.
- If we want to start a FACTORY RESET via the receiver, it is necessary to hold the ON/OFF button until the red color appears on the receiver, and after that the receiver returns to the factory settings, losing the connection with the thermostat and internet connection (if they were previously saved). After that, receiver enters SmartPairing mode to reconnect with thermostat.



Receiver ON/OFF/AUTO button (RGB light signal indicators)

- RED - Heating request is active
- GREEN - Device is turned on but there is no heating request
- BLINKING BLUE - Bluetooth Connect mode
- BLINKING YELLOW - There is no communication between the thermostat and the receiver
- BLINKING GREEN - Receiver is in pairing mode
- BLINKING PURPLE - RF hardware fault



Overview of the receiver working options screen

Mobile App Inngenso

Creating an account

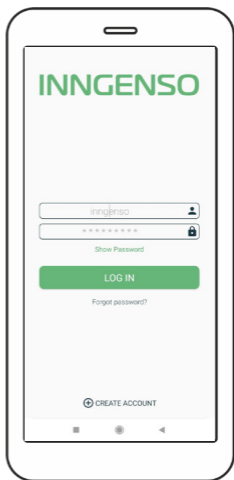
Creating an account is possible with the mobile app.

1. Open Google Play / AppStore.
2. Search for Inngenso.
3. Click download.
4. After installing it, open the mobile app.
5. Choose CREATE ACCOUNT.
6. Enter data in corresponding fields.
7. Click REGISTER.
8. Check the email used to create a new account and confirm registration via the confirmation link.
9. Go back to the main screen in the mobile app.
10. Enter your username and password in corresponding fields.
11. Click LOG IN.
12. The application is ready to use.





Overview of the register screen



Overview of the log in screen

Add new device

By adding a new device the first connection of the device with the internet is established. This is done via the mobile app.

There are 2 ways to add the device via Bluetooth Connect. First way is via button on the receiver:

1. Turn on the location function on mobile device.
2. Open the mobile app.
3. Log in to the account you previously created.
4. Click on ADD NEW DEVICE.
5. You can also add a new device by clicking the symbol + in the upper right corner.

6. Select Bluetooth Connect.
7. Check if the your router is 2.4GHz.
8. Follow the animation for adding device into Bluetooth Connect.
9. Input the password of the WiFi network that you're connected to.
10. If the phone is not connected to a WiFi network then you will need to input SSID (the name of the network you want to connect the device to) and the password of that network.
11. Wait for the mobile app to find the device.
12. A message on the devices connection will be displayed on the mobile app screen.

The optional way is via the thermostat in case the receiver is inaccessible. The receiver will be put into Bluetooth Connect mode via thermostat as described previously.

1. Activate Bluetooth Connect Mode on the thermostat as explained before. Activating bC on thermostat immediately puts receiver in bC mode.
2. Turn on the location function on mobile device.
3. Open the mobile app.
4. Log in to the account you previously created.
5. Click on ADD NEW DEVICE.
6. You can also add a new device by clicking the symbol + in the upper right corner.
7. Select Bluetooth Connect.
8. Check if the your router is 2.4GHz.
9. You can skip the animation because the thermostat is already put receiver in bC mode.
10. Input the password of the WiFi network that you're connected to.

11. If the phone is not connected to router then you will need to input SSID (the name of the network you're connected to) and the password of that network.

12. Wait for the mobile app to find the device.

13. A message on the devices connection will be displayed on the mobile app screen.

If there is more than one receiver connected to the thermostat, only one receiver can be added in Bluetooth Connect mode. The rest of the receivers will communicate among themselves and exchange the informations if they're already added to the thermostat via smart pairing. In case of the Bluetooth Connect mode the devices should be as close as possible otherwise in the long distances the connection might fail.

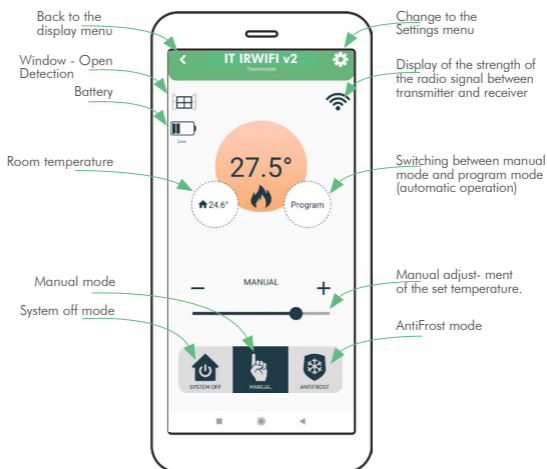
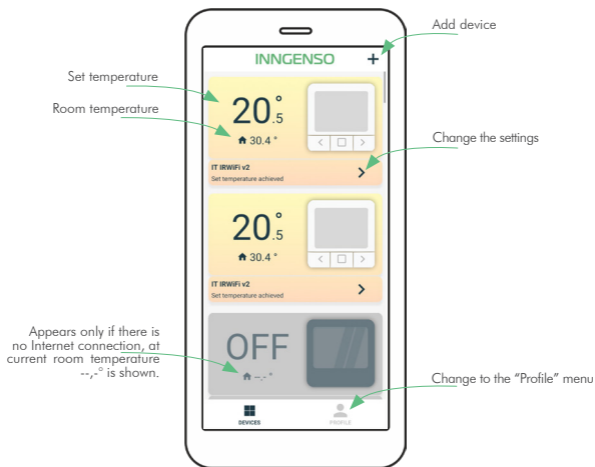


Overview of the screen without connected devices




Overview of the screen with connected device

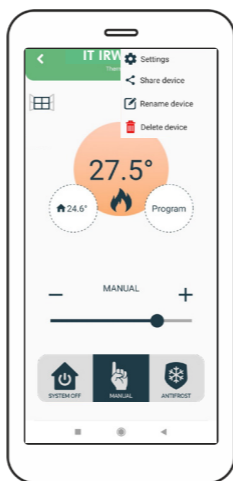
Overview of display menu screen



Share device

It is possible to share already connected device with other accounts (e.g. with family members) by using the mobile app.

1. Open the mobile app.
2. Select the device you want to share.
3. Click the symbol  in the upper right corner.
4. Select SHARE DEVICE.
5. Use the other mobile phone to scan QR-code from the screen of your device.

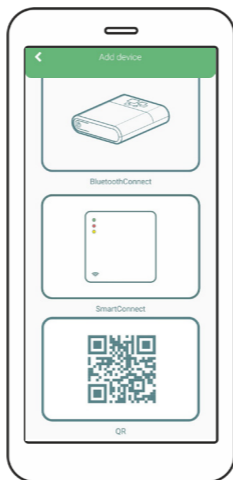


Share device option in the menu

Add existing device

It is possible to add a device connected to other accounts (e.g. family member) by using the mobile app. This is related to the previously explained sharing of the device.


1. Open the mobile app.
2. Click the symbol + in the upper right corner.
3. Choose QR.
4. Scan QR-code from other device's screen.
5. A message on the device's connection status will be displayed on the mobile app screen.



Overview of the screen for adding a device

Rename device

It is possible to rename the device via mobile app.


1. Open the mobile app.
2. Select the device you want to rename.
3. Click the symbol  in the upper right corner.
4. Select RENAME DEVICE.
5. Choose RENAME if you want to rename the device or CANCEL if you don't want to rename the device.

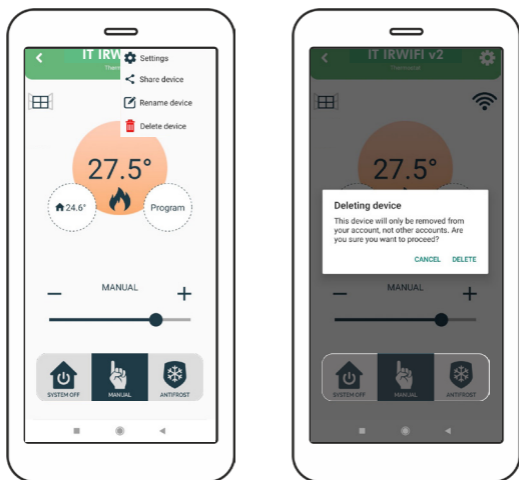


Overview of the screen for renaming a device

Delete device

It is possible to delete the device from mobile app. If the device is shared with multiple accounts, it will only be deleted from your account.

1. Open the mobile app.
2. Select the device you want to share.
3. Click the symbol  in the upper right corner.
4. Select DELETE DEVICE.
5. A message will be displayed; choose DELETE if you want to delete the device or CANCEL if you don't want to delete the device.



Overview of the screen for deleting a device

Settings Menu

Child Lock

With Child Lock turned on, the thermostat can only be controlled via mobile app while changing the settings on the thermostat itself is disabled. The Child Lock will turn on immediately but the information will be displayed on the thermostat a few minutes later (Max. 3 minutes).

In case of internet loss and the child lock is still on you can return it to manual mode by disconnecting receiver from the power and turning it again on.

Thermostat

The status of the thermostat is shown on the right side, whether it is active or inactive.

Battery

The battery level of the thermostat is shown on the left side.

Receivers

When clicked on it, it shows the number of active receivers that are interconnected and connected to the app.

For every individual receiver there is a control panel to set the modes ON, OFF or AUTO.

Beneath each receiver the current software version is mentioned. If the version is up to date it will say UP TO DATE if

the new version is available it will say UPGRADE.

To upgrade the software version each time, it will need to be done manually.

Error state

There can also be states of the receivers which will be indicated by background color in the app.

If the color of the option Receivers normal (white) the devices are functioning normally. If the color of the option Receivers is red that means that there is some error on the device. If you tap on the option Receivers, it will lead in the new menu previously explained, where you can see the type of error and for which individual receiver.

The error states are also indicated on the receivers itself by blinking red and blue LED light.

There are 3 error states that can happen on the receivers:

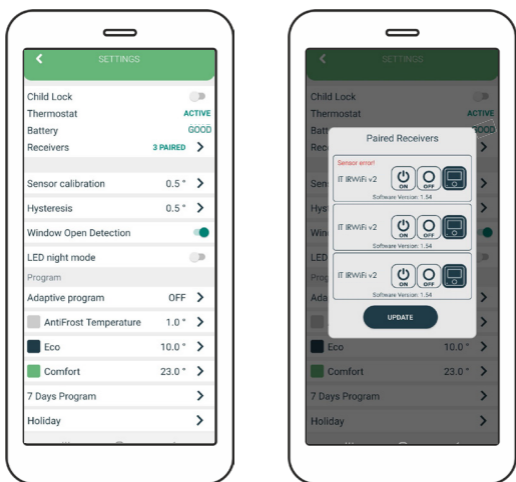
- Sensor error
- Device overheating
- Antifrost active

In the following pages each of the errors will be explained.

Sensor error:

The meaning of this error is that the device could not read the temperature of the receiver.

It is indicated by red option Receivers in the app. When you tap on it, it will read "Sensor error" in red letters above the name of the receivers that has this error. The notification will also be sent to your mobile device to alert you of the error. This error will cause the heating to turn off, it will also indicate in the app by removing the heating panel from the control panel, until the sensor gets back to the normal state.



Overview of the screen for sensor error

Device overheating:

The meaning of this error is that the receiver is way too warm to be working properly. It will turn down in order to cool down.

It is indicated by red option Receivers in the app. When you tap on it, it will read "Device overheating" in red letters above the name of the receivers that has this error. The notification will also be sent to your mobile device to alert you of the error. This error will cause the heating to turn off, it will also indicate in the app by removing the heating panel from the control panel, until the IR panel cools down and returns to the normal state.

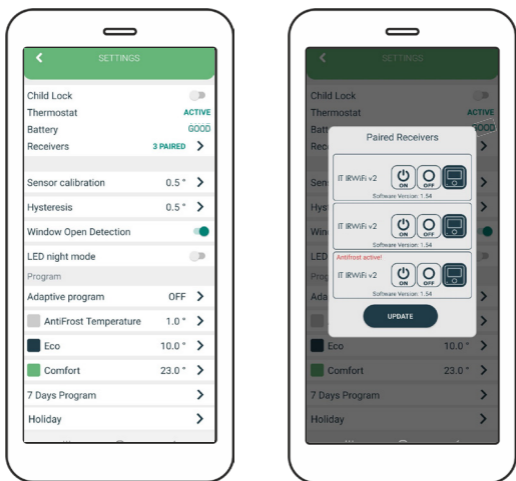


Overview of the screen for device overheating error

Antifrost error:

The meaning of this error state is that when the temperature of the receiver falls below 5°C.


It is indicated by red option Receivers in the app. When you tap on it, it will read "Antifrost active" in red letters above the name of the receivers that has this error. The notification will also be sent to your mobile device to alert you of the error. This error will cause the heating to turn on, it will also indicate in the app by placing the heating panel on the control panel, until the IR panel heats up and returns to the normal state. The heating in this state of error will turn on in periods of 30 min.

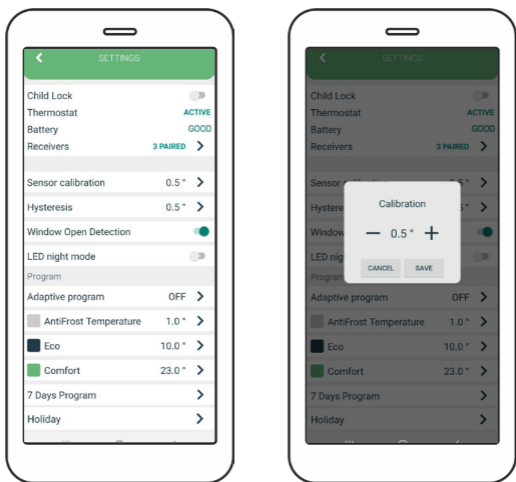


Overview of the screen for antifrost error

Temperature sensor calibration

Sensor calibration is an adjustment performed on a sensor to make that thermostat as accurate as possible.


1. Open the mobile app.
2. Click the symbol  in the upper right corner and then click SETTINGS.
3. Choose SENSOR CALIBRATION and set desired value between -5°C and $+5^{\circ}\text{C}$.
4. Click SAVE.

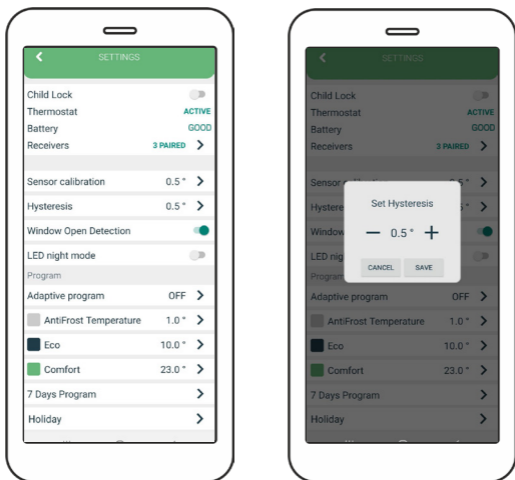


Overview of the screen for calibrating the temperature sensor

Setting the hysteresis

Hysteresis is the value for which the current temperature must be lower than the set temperature in order to switch the heating on. Hysteresis setup is possible via mobile app.

1. Open the mobile app.
2. Click the symbol  in the upper right corner and then click SETTINGS.
3. Choose HYSTERESIS and set desired value between 0.2 °C and 5 °C.
4. Click SAVE.




Overview of the screen for setting the hysteresis

Sensor overheat

The status of the thermostat is shown on the right side. In case of overheating, the heating turns off until the heater cools down to normal working temperature. Standard overheat temperature is 100 °C.

Window open detection

Window open detection is a feature that detects whether your window is open. It can only be detected when the heater is turned on. If opened window has been detected the heater will automatically be turned off for next 10 minutes, unless you apply some change to any of your general settings which will temporarily disable window open detection for the next 30 minutes. Also after 10 minutes have passed since the opened window has been detected, this will also temporarily disable window open detection for the next 30 minutes. Window open detection can be enabled or disabled via mobile app at any given time.


1. Open the mobile app.
2. Click the symbol  in the upper right corner and then click SETTINGS.
3. Press on the slider to turn on/off window open detection.

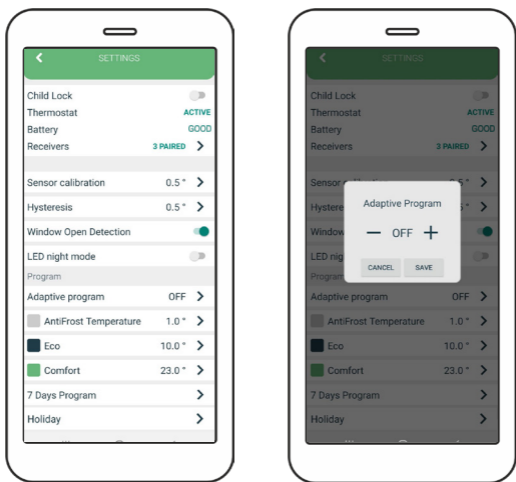
LED night mode

To regulate the intensity of the LED on the receivers, from strong to dimmed light.

Adaptive program

Setting the adaptive program is possible by using the mobile app. It enables the user to turn on the heating several minutes before it is scheduled in 7 Days program, so that the desired room temperature is achieved at the scheduled time.

1. Click the symbol  in the upper right corner and then click SETTINGS.
2. Choose ADAPTIVE PROGRAM and set the desired value desired value between 1 and 60 minutes, or OFF.
3. Click SAVE.




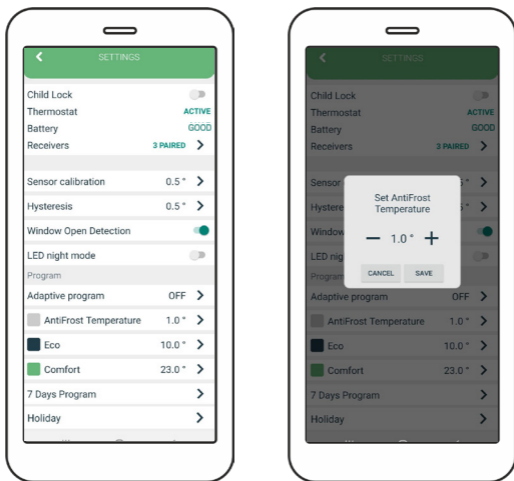
Overview of the screen for setting the adaptive program

Antifrost

In the mobile app on the control panel antifrost can be modified from 0-17 °C. It will also be immediately modified in the settings.


To modify antifrost in the settings follow the steps:

1. Click on the symbol  in the upper right corner and then click on SETTINGS.
2. Click on on AntiFrost and set the desired temperature.
3. Click SAVE.




Overview of the screen for setting the antifrost temperature

Setting the Eco temperature

In the mobile app, on the control panel, Eco temperature  can be modified from 10-30 °C. It will also be immediately modified in the settings.


To modify Eco temperature in the settings follow the steps:

1. Click the symbol  in the upper right corner and then click SETTINGS.
2. Choose Eco temperature and set desired value.
3. Click SAVE.




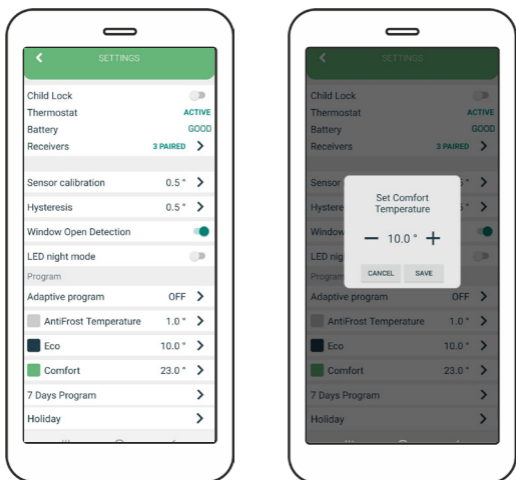
Overview of the screen for setting the economic temperature

Setting the comfort temperature

In the mobile app, on the control panel, Comfort temperature  can be modified from 15-35 °C. It will also be immediately modified in the settings.

To modify Comfort temperature in the settings follow the steps:


1. Click the symbol  in the upper right corner and then click SETTINGS.
2. Choose Comfort temperature and set desired value.
3. Click SAVE.




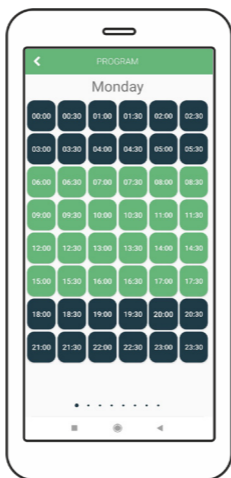
Overview of the screen for setting the comfort temperature

Setting the weekly program

The program can be set for each day in a week separately or for the whole week at once. During one day for every half an hour COMFORT/ECO/ANTIFROST temperature is being set. Economic temperature is set by default in other half-hour intervals. To setup the whole week, swipe all the way to the right.

1. Click the symbol  in the upper right corner and then click SETTINGS.
2. Choose SEVEN DAYS PROGRAM.
3. Choose half-hour intervals in which you want to have Comfort, Eco or AntiFrost temperature activated, for each day separately or the whole week at once.

 NOTE: First setup the time for the entire week, then if necessary adjust the time for each day.




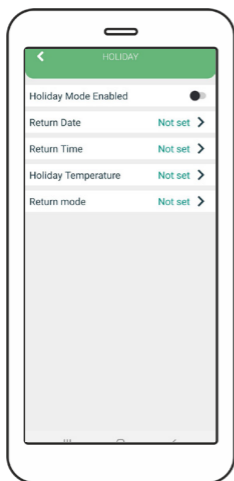
Overview of the screen for setting the weekly program

Holiday mode

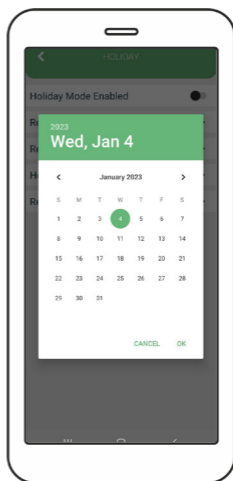
In the mobile app, on the Holiday mode control panel, Holiday temperature can be modified from 0-35 °C. It will also be immediately modified in the settings.

To modify Holiday mode in the settings follow the steps:

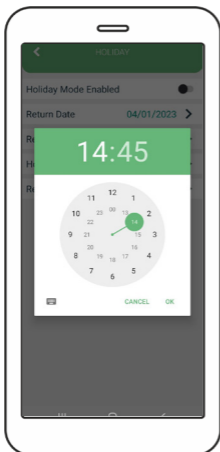
1. Click the symbol  in the upper right corner and then click SETTINGS.
2. Choose Holiday mode and set desired values and modes (Return date, Return time, Holiday Temperature, Return mode).
3. Click on Holiday Mode Enabled slider to SAVE values and modes so Holiday mode can start operating.



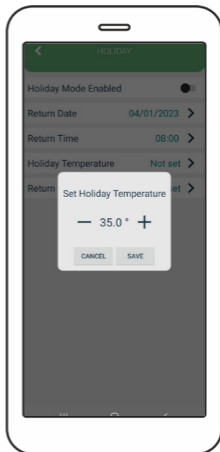
Overview of the screen without set values



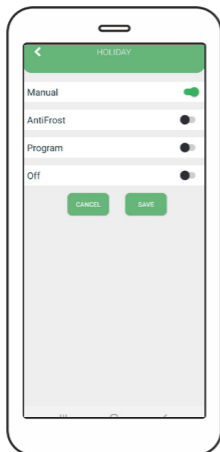
Overview of the screen for setting Return Date



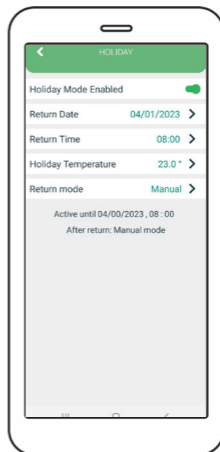
Overview of the screen for setting Return Time



Overview of the screen for setting Holiday temperature



Overview of the screen for setting Return Mode



Overview of the screen with all values and modes set



Overview of the main screen for Holiday mode

Holiday mode can be turned off by pressing slider in holiday mode options (upper right corner of the screen), or it will automatically turn itself off when the holiday mode time that you set expires.

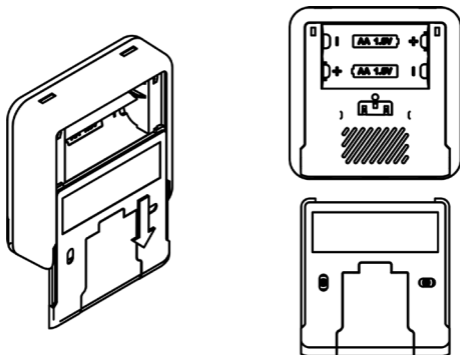
Maintenance

Battery replacement

If the battery symbol appears on the screen, change the batteries:

1. Remove the thermostat from the thermostat mount.
2. Replace the batteries with two Alkaline AA 1.5V batteries.
3. Place the thermostat on the thermostat mount.
4. Set TIME by following the manual: SETTING THE TIME.

The thermostat is ready to continue operating. All set programs and advanced options have been preserved.



Interference detection and correction

Condition: The room thermostat display is off.

- Make sure the thermostat is on.
- Check that the room thermostat batteries are properly inserted into the battery compartment.
- Check the correct polarity of the batteries.
- Make sure the batteries are not empty.

Condition: The thermostat cannot establish communication with the receiver.

- Turn the thermostat off/on by putting batteries out/in.
- Press the MIDDLE button on the thermostat for a refresh.

Condition: The receiver activated the heating request, but the heating system did not activate.

- Check that all other conditions for activating the heating are fulfilled.
- Check that the receiver is properly attached to the panel.
- Make sure the receiver is properly connected to the heating system.

Condition: Unable to Bluetooth Connect a device.

- Make sure that you have entered the right password, check with the show password option if necessary.
- Exit smart config via thermostat and also via mobile app, then enter it again for another try.


Handling and maintenance

The device is designed to operate reliably for many years with appropriate handling. Here are some tips to handle it properly:

1. Before using the product, read the manual carefully.
2. Do not expose the product to direct sunlight, extreme cold and humidity, and sudden changes in temperature. This lowers the measurement accuracy.
3. Do not place the product in a place subject to vibration or shocks - it may cause damage.
4. Do not expose the product to excessive pressure, shocks, dust, high temperature or humidity - this can cause degradation of product functionality, reduced energy endurance, batteries damage and deformation of plastic parts.
5. Do not expose the product to rain or moisture, dripping or splashing water.
6. Do not place any open flames on the device, such as a lit candle, etc.
7. Do not place the device in places where there is insufficient air-flow.
8. Do not place any objects in the vents of the unit.
9. Do not touch the internal power openings of the device - they may be damaged and thus automatically void the warranty. Only a qualified person should operate the device.
10. Use a slightly damp cloth to clean it. Do not use thinners or cleaners - they could scratch the plastic parts and damage the power lines.

11. Do not immerse the product in water or other liquids.
12. In case of damage or malfunction of the device, do not make any repairs yourself. Have your device repaired at the shop where you bought it.
13. This product is not intended for use by persons (including children) with limited physical, sensory or intellectual abilities or persons without experience and / or knowledge, unless they are under the supervision of a person in charge of their safety or have been instructed by that person to use the product. Children should be supervised to ensure that they do not play with the device.

Do not dispose the device or batteries at the end of their lifetime as unsorted municipal waste; use waste collection centers. By properly disposing the waste, you will avoid a negative impact on human health and the environment. Recycling contributes to the protection of natural resources. More information about recycling this product will be provided by the municipality, your household waste disposal organization, or the point of sale where you purchased the product.

 **NOTE:** The contents of this manual are subject to change without notice - due to limited printing, the displayed symbols may be slightly different from the on-screen display - the contents of this manual may not be copied without prior consent.

Innentech GmbH declares that IT IRWiFi (thermostat + receiver) meets the essential requirements and other relevant provisions of Directive 2014/53/EU. The device can be used freely in the EU.

INNGENSO

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