seitron
Innovation Technology

COMPLETE INSTRUCTION MANUAL

Wi-Time
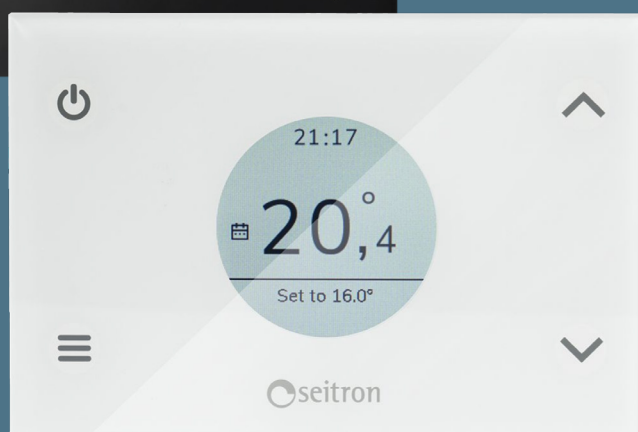
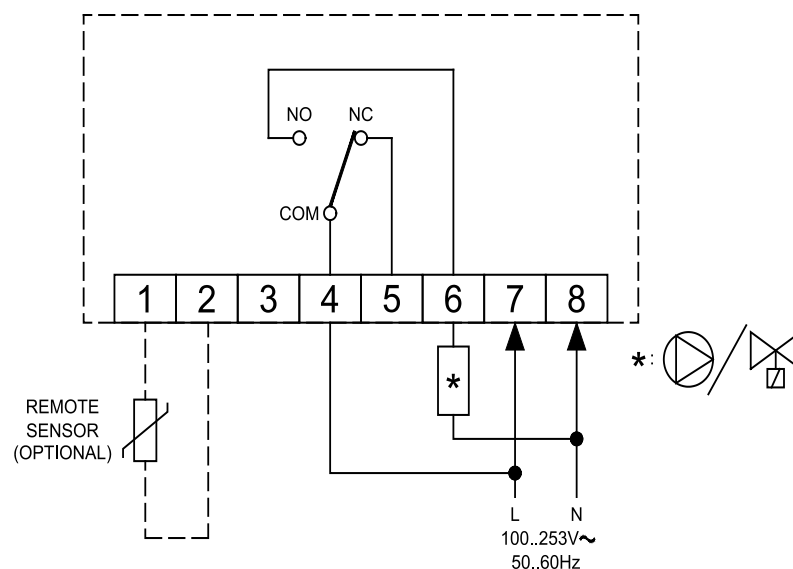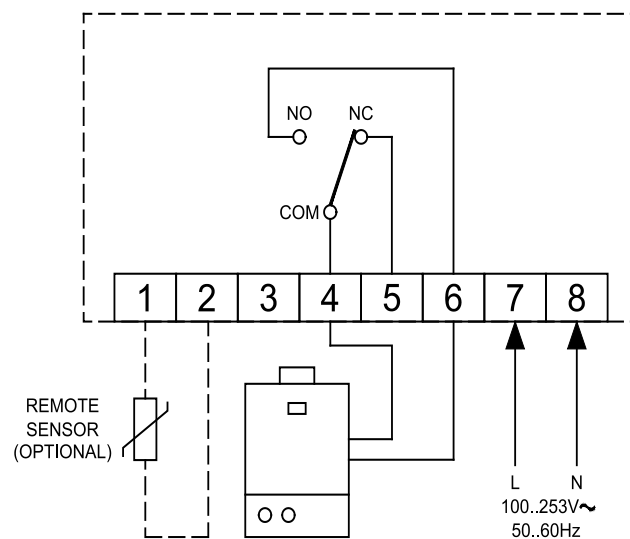**Weekly Wi-Fi Programmable Thermostat**

INDEX

⚠ **WARNING**

- In order to adjust properly the room temperature, install the programmable thermostat at 1,5 meters from the floor, far from heat sources, airstreams or particularly cold walls (thermal bridges).
- If the load controlled by the relay of the programmable thermostat operates with mains voltage, the connections must be made via an omnipolar switch complying with current standards and with contact opening of at least 3 mm in each pole.
- Installation and electrical wirings of this appliance must be made by qualified technicians and in compliance with the current standards.
- Before wiring the appliance be sure to turn the mains power off.

NO   NC

COM

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

REMOTE SENSOR (OPTIONAL)

L   N
100..253V∿
50..60Hz

NO   NC

COM

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

REMOTE SENSOR (OPTIONAL)

*

∗:

L   N
100..253V∿
50..60Hz

PAIRING THE PROGRAMMABLE THERMOSTAT AND APP

When the steps described on the quick guide chapter 'INSTALLATION' are performed, it is possible to start the device connection and configuration.
When the programmable thermostat is switched on for the first time, it shows for a few seconds, the startup screen.
Once the software is loaded, the home screen appears.
The display shows the blinking symbol ⚙ indicating that it is necessary to associate the programmable thermostat to the APP (this symbol appears on the first configuration or when reconfiguring the Wi-Fi connection).
The symbol 📶 appears on the display when a Wi-Fi connection is already available and the device is connected and associated to the App.
The bars of this symbol are filled depending on the quality of the available Wi-Fi signal.

Device connection with Wi-Fi network and App

1 Download and start the Seitron Smart App on your mobile device (Smartphone and/or tablet).

2 If you already have a registered Email and Password, fill out the indicated fields. | If you are not registered, push the button 'Sign in'.
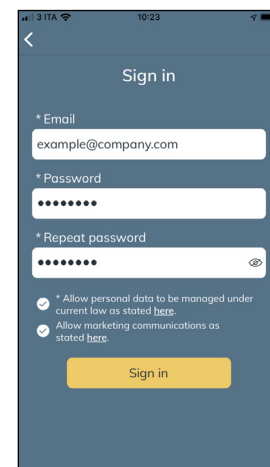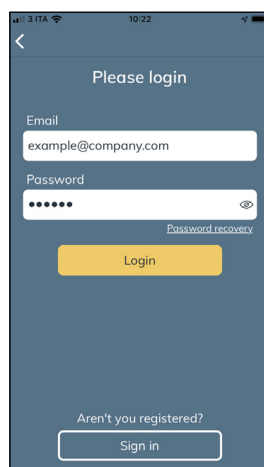
3 Pair a new wi-time with the dedicated App
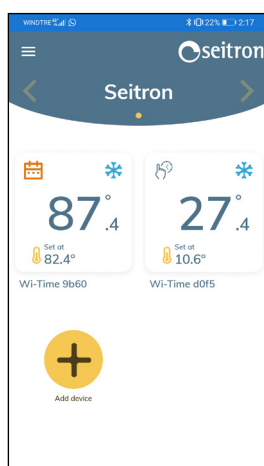
Press ' + '
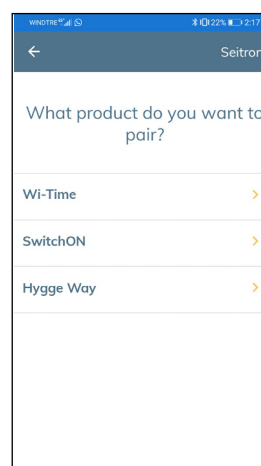
Select ' **Wi-Time** '
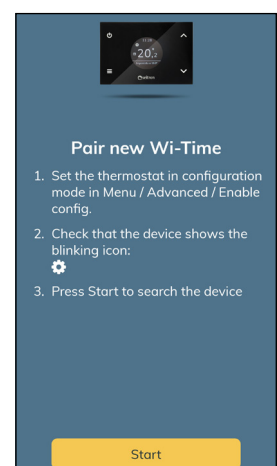
Follow the instructions and press ' **Start** '

When the device has been detected, the MAC address will appear
on the screen shown below.
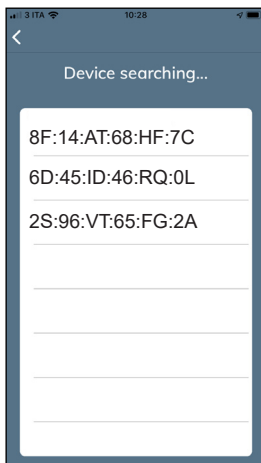
> Push on the MAC address in order to start the pairing process (association programmable thermostat=>App).
> The MAC address of the device is shown on the user parameter 'Info Service': See chapter 'Setting user parameters'.

WARNING

- **It may be possible that more than one device must be paired; So, on the screen "Device searching" all the active wi-time MAC addresses will be visible. In this case associate one device at a time.**

> Fill out all the fields as suggested inside the example boxes and choose one of the available Wi-Fi networks.
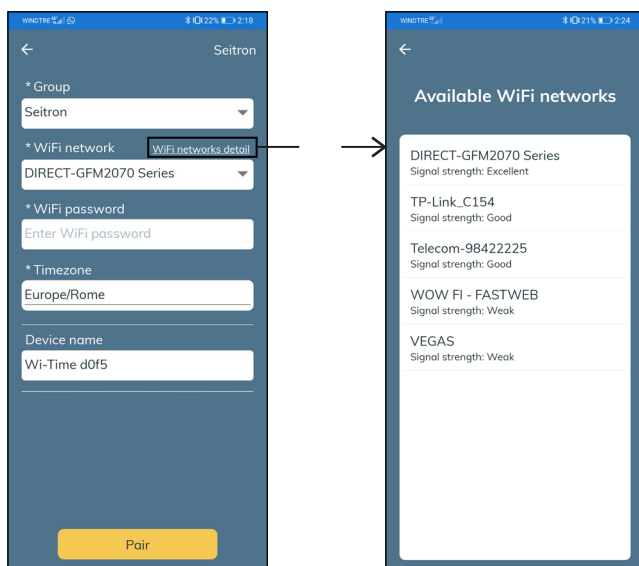
> Push the button 'Pair'.
> Now the device is connected to the specified Wi-Fi network and it can be managed from remote using the App.

WARNING

- **On the main screen of the connected programmable thermostats, the symbol 📶 appears, showing that the first association of the wi-time/App has already been performed.**

OPERATION

STARTING UP
- **Associate the programmable thermostat with the App as described on the paragraph "PAIRING THE PROGRAMMABLE THERMOSTAT AND APP".**
- **Set the programmable thermostat operating mode on Heating (set by default) or Cooling.**

FUNCTIONING LOGIC
On 'Heating' mode, when the detected room temperature, through the internal sensor or alternatively with the external sensor, is lower than the set one (manually or by program), the wi-time activates the relay to start the boiler and the symbol ' 🔥 ' appears on the display.

On 'Cooling' mode, when the detected room temperature, through the internal sensor or alternatively with the external sensor, is higher than the set one (manually or by program), the wi-time activates the relay to start the cooling system and the symbol ' ❄ ' appears on the display.

DISPLAY VISUALIZATION
When operating normally, the display shows:
- The current time regulated through Wi-Fi or set manually.
- The detected room temperature.
- The symbol of the Wi-Fi connection (📶) or the configuration mode symbol (⚙).
- Under the line, on the lower part of the display, the setpoint temperature is shown. If the device is on 'Heating' mode and it is warming to reach the setpoint temperature (set manually or by program) the writing 'Heats up to' and the setpoint temperature appear. If the device is on 'Cooling' mode and it is cooling the room to reach the setpoint temperature (set manually or by program) the writing 'Cool down to' appears and, subsequently, the setpoint temperature.

ATTENTION
If the display is off, the device is performing a software update . Please do not unplug the device from the mains power and make sure to provide internet Wi-Fi signal covering.

ROOM TEMPERATURE REGULATION
The room temperature regulation can happen in two configurable ways, described as follows.

Program
This mode can be activated directly on the wi-time or via App. This mode, which time slots can be managed exclusively via Seitron smart App, allows to activate the adjustment of the room temperature according to the set weekly program.
Details:
- The programmable thermostat regulates the room temperature according to the set program.
  These are the regulations modes: In Heating mode: Antifreeze, Comfort or Economy.
                                          In Cooling mode: Off, Comfort or Economy.
- Normally on Heating mode, in order to get an economy night mode, the economy temperature should have a lower value than the comfort one. On the contrary, when on cooling mode, the economy temperature should have an higher value than the comfort one.

Manual
This mode, which can be activated directly on the wi-time or via App, allows to manually regulate the room temperature independently from the time program, according to the mode set on the user parameter 'Manual' or on the App settings.
This mode can be activated acting on the buttons ' ⌃ ' or ' ⌄ ' as described in the following:
- Push one time the button ' ⌃ ' or ' ⌄ '.
- The display shows 'Change setpoint' and the related configured setpoint temperature.
- By furtherly pressing the buttons ' ⌃ ' or ' ⌄ ' the setpoint temperature can be modified and the wi-time switches automatically to the 'manual' regulation mode.

If the user parameter 'Manual' has been set to 'Temporary' the display shows the symbol ' 👆 '; this mode will be active until 23.59 of the current day.

On the contrary, if the user parameter 'Manual' has been set to ' Permanent' the display shows the symbol ' 👆 '; this mode will be active until it is disabled voluntarily.

ATTENTION
If it is necessary to go back to the 'Program' setting, follow the procedure described in SETTING USER PARAMETERS → PROGRAM.

Boost

This mode can be activated exclusively via the App Seitron smart.

By activating this mode, the programmable thermostat compels the system to turn on in heating or cooling mode (depending on the setting made) for a time which can be set to 30, 60 or 90 minutes independently from the setpoint temperature.

This function is activated if it is needed to warm up or chill an environment particularly hot or cold.

SWITCHING OFF

In order to switch off the programmable thermostat, push the button ' ⏻ ' for at least one second. The display shows the writing ' OFF '.

KEYBOARD LOCK

By pushing at the same time the soft buttons ' ∧ ' and ' ∨ ' when on main screen or when the programmable thermostat is off, it is possible to lock the keyboard so that it won't be possible to tamper the device or accidentally press some button.

The keyboard lock is confirmed on the display with a message and the symbol ' 🔒 '.

To unlock the keyboard, press at the same time the keys ' ∧ ' and ' ∨ ' again: the display shows a confirmation message that the keyboard has been unlocked.

ANTIFREEZE FUNCTION

The antifreeze function is activated if the programmable thermostat is on and the following three conditions are true at the same time:

1. The device is on 'Program' mode.

2. It has not been specified a Comfort or Economy temperature in a time slot during the daily program.

3. The device is on 'Heating' mode.

If all these conditions are true, the antifreeze function will be active; in such a case the room temperature is regulated according to the value set on the antifreeze parameter (see paragraph 'USER PARAMETERS SETTINGS'). If, at condition number 3, the programmable thermostat is set to 'Cooling' mode the display shows the writing 'Off' indicating that the Antifreeze function is not active.

BACKLIGHT

The display backlight turns on when any key is pressed. When the programmable thermostat is not being used, the backlight is the standby one.

REMOTE TEMPERATURE SENSOR

The wi-time is featured with an input to which a remote sensor (optional) can be connected.

The external sensor can be used to detect the room temperature in case the programmable thermostat must be installed in a position which is not suitable for the room temperature detection.

In case the installation foresees a remote sensor, it is necessary to connect a 10 KOhm at 25°C NTC sensor to terminals 1 and 2 as shown on the diagram of the quick guide at page 4.

In case of doubts about which type of sensor it is needed to connect, please contact the manufacturer.

The programmable thermostat automatically recognize if a remote sensor is connected and it will regulate the room temperature according to the temperature detected by the remote sensor itself.

The temperature shown on the device will be the one detected by the remote sensor.

DIMENSIONS

122mm

82mm

43mm

15mm

48mm

48mm

1 2 3 4 5 6 7 8

seitron
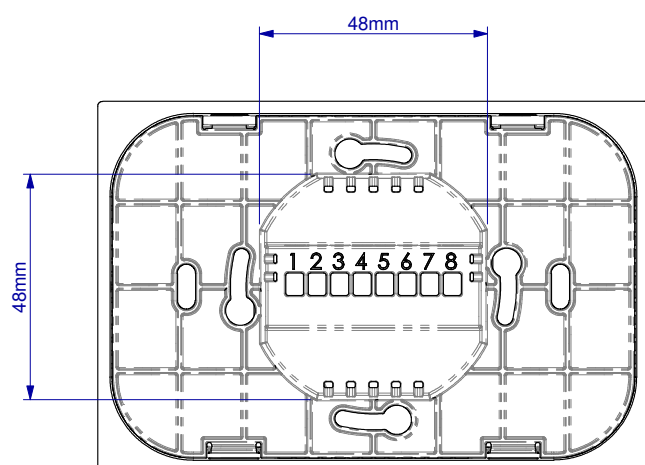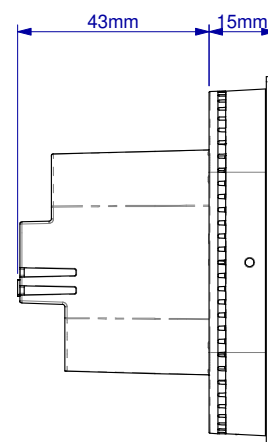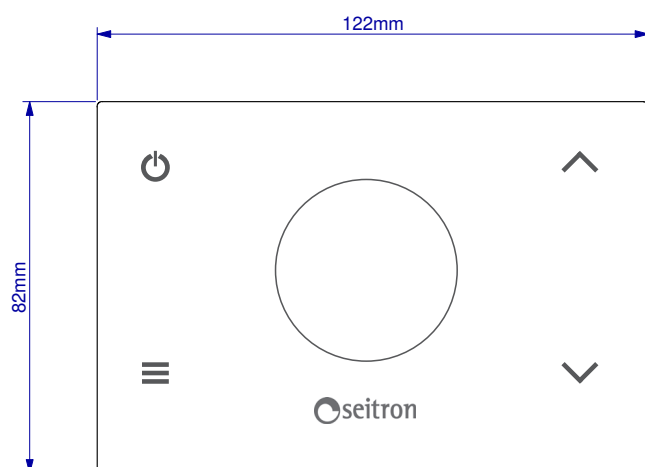
TECHNICAL FEATURES

Power supply:		100 .. 253V ∼ 50 .. 60Hz
Frequency:		2.4 .. 2.5 GHz
Modulation:		DSSS / OFDM / MIMO-OFDM
Max. RF power transmitted:		< 100 mW
Type of antenna:		Internal
Temp. regulation range:	comfort:	5°C .. 40°C
	economy:	5°C .. 40°C
Asymmetrical differential (Hysteresis):		0,1°C .. 5°C (Default 0,2°C)
Antifreeze:		2°C .. 25.0°C
Temperature sensor offset:		± 5.0°C. (Default 0.0°C)
Internal sensor type:		NTC 10K Ohm ±1% @ 25°C
Remote sensor type (optional):		NTC 10K Ohm ±1% @ 25°C
Precision:		±1°C
Resolution:		0.1°C
Contact rating:		3(1)A 250V ∼ SPDT
Protection grade:		IP 30
Type of action:		1
Overvoltage category:		II
Pollution degree:		2
Tracking Index (PTI):		175
Class of protection against electric shock:		II ▢
Rated impulse voltage:		2500V
Number of manual cycles:		1.000
Number of automatic cycles:		100.000
Software class:		A
EMC test voltage:		230V ∼
EMC test current:		25mA
Distances tolerances fault mode 'short' exclusion:		±0,15mm
Ball pressure test temperature:		75°C
Operating temperature:		0°C .. +40°C
Storage temperature:		-10°C .. +50°C
Humidity limits:		20% .. 80% RH non condensing
Case:	Material:	ABS+PC V0 self-extinguishing
	Color:	White / Black

CLASSIFICATION UNDER REG. 2013.811.CE

Class:	IV
Contribution to energy efficiency:	2%

WARRANTY

In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.

The consumer is guaranteed against any lack of conformity according to the European Directive 1999/44/EC as well as to the manufacturer's document about the warranty policy.

The full text of warranty is available on request from the seller.

USER PARAMETERS SETTINGS

In order to access the settings of the programmable thermostat, proceed as follows:

1. Push the button '☰'; the display shows main menu.

2. Press the button '︿' or '﹀' to scroll the user parameters:
    *   **Date/Time (only visible if the device is not connected to Wi-Fi)**
    *   **Brightness**
    *   **Languages**
    *   **Program (only visible if the regulation mode is set to manual permanent or manual temporary)**
    *   **Sound**
    *   **Advanced**
    *   **Reset Device**
    *   **Infoservice**

3. Push the button '☰' to enter 'edit' mode of the selected parameter.

4. Configure the data related to each parameter, as shown in the following.

5. In order to exit the programming of the user parameters, select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Date / Time

⚠ **ATTENTION**
-   **The menu 'Date/Time' is visible only if the device IS NOT paired with the App Seitron Smart.**
-   **The Wi-Fi connection automatically sets date and time.**

In order to set the clock of the programmable thermostat, perform the following operations:

1. Push the button '☰' on the programmable thermostat to access the user parameters menu.

2. Through the keys '︿' and '﹀' select the parameter Date/Time and push the key '☰'.

3. Through the keys '︿' and '﹀' select the parameter 'Date' and push the key '☰'.

4. Set the date with the keys '︿' and '﹀'; push the key '☰' to confirm the set data and move to the next one.

5. After setting the year, push the key '☰' to go back to the upper menu.

6. Through the keys '︿' and '﹀' select the parameter 'Time' and push the key '☰'.

7. Set the time with the keys '︿' and '﹀'; push the key '☰' to confirm the set data and move to the next one.

8. After setting the seconds, push the key '☰' to go back to the upper menu.

9. Through the keys '︿' and '﹀' select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Brightness

Through this parameter it is possible to set the display brightness on two levels, turn on/off the white LEDs on the four corners of the display and to change the background color of the display.

1. Push the button '☰'; the display shows the menu.

2. Select the menu 'Brightness' and push the button '☰'.

3. Select with the keys '︿' and/or '﹀' one parameter among:
    - 'On'   (that is when the wi-time is being operated; the display brightness is settable inside the range 10 .. 100).
    - 'Standby'   (that is when the wi-time is not being operated; the display brightness is settable inside the range 0 .. 100).
    - 'Backlight'   (parameter used in order to switch on/off the four white LEDs located on the display corners).
    - 'Theme'   (parameter used to set the background color and display characters: white background and black characters or black background and white characters).

4. Confirm with '☰'.

5. About the parameters 'On' and 'Standby': set the brightness with keys '︿' and '﹀'; push the key '☰' to confirm the set data.

6. For the 'Backlight' parameter, depending on the proposed question, push the key '☰' for 'Yes' or the key '⏻' for 'No'.

7. For the 'Theme' parameter, select with the keys '︿' and '﹀' the color (White or Black) and push the key '☰' to confirm the data inserted.

8. To exit the menu, select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Languages

With this parameter is possible to set the language of the programmable thermostat.

1. Push the button '≣'; the display shows the menu.
2. On the menu 'Languages', push the button '≣'.
3. Select with the keys '∧' and/or '∨' which language it is needed to set; push the button '≣' to confirm the choice.
4. To exit the menu, select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Program

This parameter is visible only if the room temperature is regulated in "Manual temporary" or "Manual permanent" mode.
It allows the programmable thermostat to resume the room temperature regulation according to the weekly program set via the App.
In order to resume the time programming, proceed as follow:

1. Push the button '≣'; the display shows the menu.
2. On the parameter 'Program', push the button '≣'.
3. The display shows the writing "Disable manual mode?"
4. With the keys '∧' and '∨' it is possible to select one of the two options which appear on the display 'Yes' or 'No'.
5. In order to complete the procedure, choose 'Yes' confirming with the key '≣'; the display shows the confirmation of the setting, so the wi-time will regulate the room temperature according to the set weekly program.
6. On the contrary, with the 'No' option, the programmable thermostat goes back to the previous screen without saving the changes.
7. Through the keys '∧' and '∨' select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Sound

With this parameter it is possible to set the sound emitted by the device when using the buttons; this parameter can be set to: beep, click or silent.

1. Push the button '≣'; the display shows the menu.
2. On the menu 'Sound', press the key '≣'.
3. Select with the keys '∧' and/or '∨' which key sound is desired to set; push the button '≣' to confirm the choice and the display shows the confirmation of the selected sound.
4. To exit the menu, select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Advanced

In this menu it is possible to set the following parameters:
- **Mode**
- **Manual**
- **Antifreeze**
- **Offset**
- **Hysteresis**
- **Remote**
- **Ext. sensor man.**
- **Limitations**
- **Output reg**
- **TPI setting**
- **Regional config.**
- **Enable Wi-Fi**
- **Disable Wi-Fi**
- **Enable config.**
- **Disable config.**
- **Default**

Mode

This setting allows to invert the functioning logic of the relay, depending whether a heating or cooling system is being used.
The programmable thermostat is set to heating mode by default.

In order to modify the functioning logic, the following procedure must be carried out:

1. On the 'Mode' menu, press the key '≣'.

2. Select with the keys ' ∧ ' and/or ' ∨ ' which mode it is necessary to set (Heating or Cooling); press the button ' ☰ ' to confirm the choice.

3. The display shows the confirmation message that the desired mode has been set.

4. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Manual

This parameter defines the kind of manual regulation of the room temperature when the user activates the manual mode using the keys ' ∧ ' and/or ' ∨ ' from the home screen or via App.
The parameter allows the choice between two options: Temporary or Permanent.

Temporary
The wi-time regulates the room temperature according to the setpoint configured manually, until 23:59 of the current day.

Permanent
The wi-time regulates the room temperature according to the setpoint configured manually permanently or until the user voluntarily disable it.

In order to configure this parameter proceed as follow:

1. On the 'Manual' option, press the key ' ☰ '.

2. Select with the keys ' ∧ ' and/or ' ∨ ' which mode to set; press the key ' ☰ ' to confirm the choice.

3. The display shows the confirmation message that the desired mode has been set.

4. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

For further details about the activation of the set manual mode, see chapter 'Room temperature regulation'.

Antifreeze

The Antifreeze function allows to select a minimum temperature which is maintained when the programmable thermostat is on, in heating mode and on the current time slot no temperature of Comfort or Economy is defined; this function allows to preserve the environment and the system if the room temperature drops below the set value. The device is set by default with the Antifreeze function to +3°C.

ATTENTION
The function is active only if the device has been set in Heating mode.

In order to regulate the Antifreeze temperature, proceed as follows:

1. On the 'Antifreeze' option, push the button ' ☰ '.

2. Set with the keys ' ∧ ' and/or ' ∨ ' the Antifreeze temperature; press the key ' ☰ ' to confirm the choice.

3. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Offset

With this parameter it is possible to correct the temperature detected by the sensor of ±5°C, in order to correct any systematic reading errors which happen because of the positioning of the programmable thermostat/remote sensor in unsuitable areas for detecting the room temperature.
The device is set by default with the Offset set to 0.0°C.
In order to regulate the Offset temperature of the sensor, perform the following operations:

1. On the 'Offset' option, press the key ' ☰ '.

2. Regulate with the keys ' ∧ ' and/or ' ∨ ' the Offset temperature; press the button ' ☰ ' to confirm the choice.

3. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Hysteresis

The setting of this parameter allows to define the hysteresis, in °C, which is applied to the programmable thermostat.
In order to adjust the hysteresis perform the following operations:

1. On the menu 'Hysteresis', press the key ' ☰ '.

2. Regulate with the keys ' ∧ ' and/or ' ∨ ' the hysteresis; press the key ' ☰ ' to confirm the value.

3. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Note: This parameter is visible only if the parameter ' Output Reg. ' has been set to ' ON/OFF '

Remote

This parameter is used to pair the wi-time with a SwitchON radio receiver and, consequently, to Deactivate/Activate it.

In this menu it is possible to set the following parameters:

- **Search Remote**
- **Disable Remote**
- **Enable Remote**
- **Remote relay**
- **Wi-Time relay**
- **Eliminate remote**
- **Infoservice**

Search Remote

With this mode, the wi-time activates the search function, in order to self-learn the wi-time radio address on the SwitchON radio receiver and, after pairing it, it automatically activates it.

The wi-time .. SwitchON pairing is signaled by displaying the icon ' ⊙ '.

⚠ **WARNING**

it is possible to pair up to two SwitchON radio receiver to one wi-time.

RADIO SYSTEM CONFIGURATION

Before installing the wi-time on its final position, it is necessary to check that the radio receiver gets its signals correctly. This operation is performed by activating the function 'Search Remote':

1. On the option 'Remote', push the key ' ☰ '.

2. Select 'Search Remote' and push the key ' ☰ '.

3. The following question appears on the screen: 'Enable remote switch search?'. Push the key ' ☰ ' for 'yes' or the key ' ⏻ ' for 'no'.

4. If the key ' ☰ ' is pushed, the device starts the search mode and on the display this message appears 'Remote switch search started'. On the contrary, if the key ' ⏻ ' is pressed, the device goes back to the upper menu.

5. The device will automatically go back to the upper menu after a few moments.
   On the 'Home' screen, the symbol ' ⊘ ' appears flashing, showing that the wi-time is searching for a radio receiver to pair with. On 'Search Remote' mode, the wi-time keeps on transmitting to the radio receiver its ID number.
   The 'Search Remote' mode, can be stopped at any time accessing the parameter 'Disable Remote'.

6. If the radio receiver has learnt and stored the wi-time address, on the wi-time display the symbol ' ⊙ ' stays still lit. If this happens, the wi-time communicates correctly with the receiver.

7. When wi-time is placed on its final position, make sure that the two devices still communicate correctly. If the wi-time is placed too far away from the radio receiver SwitchON, the output relay is going to stay always on or always off and on the wi-time display the symbol ' ⊘ ' will be flashing: in this case it is advised to find a better spot, maybe closer to the radio receiver, and make sure that it is not near any metal screens, or near reinforced concrete walls which might weaken the radio signals. The radio signal quality can be monitored on the radio receiver, see the related documentation to find further information.

8. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Disable Remote

The wi-time deactivates the pairing with SwitchON radio receiver.
This parameter is only visible if a radio receiver has been paired to a wi-time.
This operation is performed by activating the 'Disable Remote' function:

1. On the option 'Remote', push the key ' ☰ '.

2. Select 'Disable Remote' and push the key ' ☰ '.

3. The following question appear on the screen: 'Disable remote switch?'. Push the key ' ☰ ' for 'yes' or the key ' ⏻ ' for 'no'.

4. If the key ' ☰ ' is pushed, on the display appears the message 'Radio receiver deactivated'. On the contrary, if the key ' ⏻ ' is pressed, the device goes back to the upper menu.

5. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Enable Remote

The wi-time activates the management of the paired SwitchON radio receiver. The function 'Enable Remote' is automatically activated during the radio address self-learning phase, with the parameter 'Search Remote'.

This parameter is available if a wi-time..radio receiver pairing has not been performed or if the remote receiver has been deactivated through the parameter 'Disable Remote'. On this last case, the wi-time activates the communication with the last paired radio receiver.

This operation is performed activating the function 'Enable Remote':

1. Select 'Enable Remote' and push the key ' ≡ '.

2. The following question appear on the screen: 'Enable remote switch?'. Push the key ' ≡ ' for 'yes' or the key ' ⏻ ' for 'no'.

3. If the key ' ≡ ' is pushed, on the display appears the message 'Remote switch enabled'. On the contrary, if the key ' ⏻ ' is pressed, the device goes back to the upper menu.

4. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Wi-Time relay

By activating this option it is possible to manage, via the Wi-Time, the connected SwitchONs relays and, at the same time, use the on board relay of the Wi-Time itself.

This option will only be visible if the remote search mode is active or a SwitchON is already connected.

This operation is performed activating the function 'Wi-Time relay':

1. Select 'Wi-Time relay' and push the key ' ≡ '.

2. The following question appear on the screen: 'Activate Wi-Time relay'? Push the key ' ≡ ' for 'yes' or the key ' ⏻ ' for 'no'.

3. If the key ' ≡ ' is pushed, on the display appears the message 'Wi-Time relay activated'. On the contrary, if the key ' ⏻ ' is pressed, the device goes back to the upper menu.

4. To exit the menu, wait 15 seconds without pushing any button r push the key ' ⏻ '.

Remote Relay

The SwitchON radio receiver is featured with two relays; through this parameter it is possible to choose which relay to use for the room temperature control, depending on the set functioning logic through the parameter ' Mode ' or using the Seitron Smart App.

The parameter allows to choose among five kind of use, which are described below.

R1 Tp
The wi-time regulates the room temperature, based on the setpoint temperature, using the output OUT 1 (R1) of the SwitchOn. The OUT 2 (R2) output is off.

R2 Tp
The wi-time regulates the room temperature, based on the setpoint temperature, using the output OUT 2 (R2) of the SwitchOn. The OUT 1 (R1) output is off.

R1 R2 Tp
The wi-time regulates the room temperature, based on the setpoint temperature, using both of the outputs, OUT 1 (R1) and OUT 2 (R2), of the SwitchOn.

R1 Tp R2 Mod
The wi-time regulates the room temperature, based on the setpoint temperature, using the output OUT 1 (R1) of the SwitchOn, while the output OUT 2 (R2) of the SwitchOn is managed according to the functioning logic set on the parameter 'Mode '.

R1 TpH R2 TpC
The wi-time regulates the room temperature, based on the setpoint temperature, using the output OUT 1 (R1) of the SwitchOn to manage the ' Heating ' mode and the output OUT 2 (R2) of the SwitchOn to manage the ' Cooling ' mode.

This operation is performed by activating the function 'Remote relay':

1. Select 'Remote relay' and push the key ' ≡ '.

2. Select with the keys ' ∧ ' and/or ' ∨ ' one of the operating modes; so, push the key ' ≡ ' in order to confirm the choice. On the display a confirmation message about the choice made appears.

3. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Note: If two SwitchON are connected to a single Wi-Time, they will perform the same commands sent by the Wi-Time.

Eliminate remote

Through this parameter it is possible to completely delete the SwitchON paired to the Wi-Time. In case you want to pair them again, you will need to repeat the remote search procedure described above.

This is done by activating the function 'Eliminate remote':

1. Select 'Eliminate remote' and push the key ' ≡ '.

2. The following question appear on the screen 'Eliminate remote relays?'. Push the key ' ≡ ' for 'yes' or the key ' ⏻ ' for 'no'.

3. If the key ' ≡ ' is pushed, on the display appears the message 'Remote relays eliminated'. On the contrary, if the key ' ⏻ ' is pressed, the device goes back to the upper menu.

4. To exit the menu, wait 15 seconds without pushing any button r push the key ' ⏻ '.

Infoservice

In this parameter it is possible to find the MAC addresses of the SwitchON (Remote MAC 1 and Remote MAC 2) which are connected to the Wi-Time.

Ext. sensor man.

Note: This parameter is visible only if the parameter ' Mode ' has been set to ' Heating '

In this menu it is possible to set the following parameters:
*   **Activ. Screed**
*   **Deact. Screed**
*   **Tmp min**
*   **Tmp max**
*   **Measured Tmp**

Activ. Screed

With this parameter it is possible to configure the remote sensor for measuring the screed temperature; it is a useful function when it comes to floor heating systems. In this case it is necessary to connect a NTC 10 KOhm at 25°C remote sensor to terminals 1 and 2, as shown on the wiring diagram on the quick guide at Fig. 4. If you have any doubt about the sensor to connect, please call the manufacturer.

To configure this parameter, proceed as follows:

1. Select the option 'Activ. screed' and push the key ' ≡ '.

2. The following question appears on the screen: 'Set the ext. Sensor on screed mode?'. Push the key ' ≡ ' for 'yes' or the key ' ⏻ ' for 'no'.

3. If the key ' ≡ ' is pushed, on the display the message 'Ext. sensor set on screed mode' appears. On the contrary, if the key ' ⏻ ' is pressed, the device goes back to the upper menu.

4. If the ext. sensor is set to screed mode, set the safety temperatures 'Tmp min' and Tmp max'.

Tmp min (Screed minimum temperature) / Tmp max (Screed maximum temperature)

With the external sensor set to screed mode the wi-time can manage the screed lower and upper temperature limit when regulating room temperature. On these parameters it is possible to set a minimum and a maximum screed temperature. If the external sensor is connected and set to detect the screed temperature, the programmable thermostat, when regulating the room temperature, will first take into account the temperature limits whithin which the screed must remain. When heating, it is possible to set a lower limit below which the screed must not go, so the floor is never too cold; while an upper limit can be set above which the floor must not go, in order to grant the maximum comfort.

The wi-time activates / deactivates the relay output when the screed temperature exceeds the set limits, not taking into account the room temperature regulation.

The lower limit for the screed temperature is settable in the range 2..10 °C, while the upper limit in the range 25..45 °C. In order to set the two safety temperatures, proceed as follows:

1. Select the parameter 'Tmp min' or 'Tmp max' and push the key ' ≡ '.

2. Adjust the temperature with the key ' ∧ ' and/or ' ∨ ' as needed; push the key ' ≡ ' to confirm the choice.

3. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Measured tmp

With this parameter it is possible to display the temperature measured by the remote sensor placed on the screed. This

temperature is not shown on normal operation mode.

In order to visualize the screed temperature, detected by the remote sensor, proceed as follows:

1. Select the parameter 'Measured tmp' and push the key '☰'.

2. The display shows the detected temperature.

3. In order to exit the display of the measured temperature, briefly push the key '⏻'.

4. To exit the menu, select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Deact. Screed

This parameter is only visible if the parameter for the screed temperature regulation by the external sensor was active. With this parameter the screed function is disabled and the external sensor can be used for the room temperature regulation in place of the wi-time internal sensor (see chapter 'Remote temprature sensor').

In order to disable the screed mode, proceed as follows:

1. Select the option 'Deact. Screed' and push the key '☰'.

2. The following question appear on the screen: 'Set the ext. Sensor on thermostat mode?'. Push the key '☰' for 'yes' or the key '⏻' for 'no'.

3. If the key '☰' is pushed, on the display the message 'Ext. sensor set on thermostat mode' appears. On the contrary, if the key '⏻' is pressed, the device goes back to the upper menu.

4. To exit the menu, select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Limitations

With this menu it is possible to limit the functionalities of the wi-time so to prevent unauthorized settings.

In this menu you can configure the following parameters:

- **Activ. Password**
- **Dis. password**
- **Enable limitations**
- **Disable limitations**
- **Tmp min**
- **Tmp max**

Activ. Password

Allows to set a password to access the 'Advanced' menu, so to prevent unauthorized modifications to the included parameters.

Proceed as follows:

1. Select the function 'Activ. Password' and push the key '☰'.

2. The display shows the following text 'Insert password combination'.

3. Insert the password, which must be composed of five keys among '☰', '︿' and '﹀' and must be set whithin 30 seconds from the moment when this menu is accessed. When the 30 seconds are over, if no valid password is inserted, the wi-time goes back to the previous screen.

   WARNING: The key '⏻' is for going up to the previous menu and it is not part of the possible password combination.

4. The following question: 'Enable password?' and the set password (for example ☰☰☰︿﹀) appear on the screen. Push the key '☰' for 'yes' or the key '⏻' for 'no'.

5. If the key '☰' is pressed, the following message is displayed 'Password enabled': from this moment on the menu 'Advanced' is protected by the password. On the contrary, if the key '⏻' is pressed, the device goes back to the upper menu.

6. To exit the menu, select the option 'EXIT' or push the key '⏻' or wait 15 seconds without pushing any button.

Dis. Password

This parameter is only visible if a password was created to access the menu 'Advanced'.

Proceed as follows:

1. Select the function 'Dis. Password', push the key '☰'.

2. The following message is displayed 'Disable password?'. Push the key '☰' for 'yes' or the key '⏻' for 'no'.

3. If the key '☰' is pushed, the following message is displayed 'Password disabled': from this moment, the menu 'Advanced' will not be protected by a password anymore and so anybody could access the device. On the contrary, if the

key ' ⏻ ' is pressed, the device goes back to the upper menu.

4. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Enable limitation

By activating this parameter it is possible to limit the room temperature adjustment range, using the keys ' ⌃ ' and ' ⌄ '.

The regulation temperature limitation is made by setting the parameters 'tmp min' (minimum adjustable temperature) and 'tmp max' (maximum adjustable temperature).

This way the user can modify the set point temperature, with the keys ' ⌃ ' and ' ⌄ ' inside the set range: tmp min .. tmp max.

The limit activation is displayed with the icon ' 🔒 '.

Proceed as follows:

1. Select the menu 'Enable limitation', push the key ' ☰ '.

2. The following question appear on the screen: 'Enable limitation?'. Push the key ' ☰ ' for 'yes' or the key ' ⏻ ' for 'no'.

3. If the key ' ☰ ' is pushed, the following message is displayed 'Limitation enabled', on the contrary, if the key ' ⏻ ' is pressed, the device goes back to the upper menu.

4. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Disab. limitation

This parameter is visible only if the limitations were enabled before and allows to deactivate the limitation for the adjustment of the set-point temperature.

Proceed as follows:

1. Select the menu 'Disab. limitation', push the key ' ☰ '.

2. The following question appear on the screen: 'Disable limitation?'. Push the key ' ☰ ' for 'yes' or the key ' ⏻ ' for 'no'.

3. If the key ' ☰ ' is pushed, the following message is displayed 'Limitation disabled', on the contrary, if the key ' ⏻ ' is pressed, the device goes back to the upper menu.

4. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

tmp min

It regulates the minimum temperature that is possible to set while operating normally with the keys ' ⌃ ' and ' ⌄ ', having previously activated the function limitation through the parameter 'Enable limitation'.

In order to set the minimum temperature, proceed as follows:

1. Select the parameter 'Tmp min' and push the key ' ☰ '.

2. Adjust the temperature with keys ' ⌃ ' and/or ' ⌄ ' (obviously this temperature must be equal to a lower value in regard to the temperature set to Tmp max); push the key ' ☰ ' to confirm the choice.

2. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

tmp max

It regulates the maximum temperature that is possible to set while operating normally with the keys ' ⌃ ' and ' ⌄ ', having previously activated the function limitation through the parameter 'Enable limitation'.

In order to set the maximum temperature, proceed as follows:

1. Select the parameter 'Tmp max' and push the key ' ☰ '.

2. Adjust the temperature with keys ' ⌃ ' and/or ' ⌄ ' (obviously this temperature must be equal to an higher value in regard to the temperature set to Tmp max); push the key ' ☰ ' to confirm the choice.

3. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Output reg.

Allows to choose whether the programmable thermostat output must be ON/OFF driven or TPI (Time Proportional Integral) driven. With ON/OFF regulation, the programmable thermostat will regulate the output with customizable hysteresis on parameter ' hysteresis '; while with TPI regulation, the programmable thermostat will regulate the output according to different types of environments.

In order to choose the operation mode, go ahead with the following procedure:

1. Select the menu 'Output reg.', and push the key ' ☰ '.

2. Choose, using the keys ' ⌃ ' and/or ' ⌄ ', the desired operating mode.

3. Push the key '≡' on the chosen operating mode; a confirmation message is displayed.

On the contrary, if the key '⏻' is pressed or you wait 15 sec. without pressing any key, the device goes back to the upper menu without saving the changes.

Note: The following parameters are visible only if the option ' Output reg. ' is set to TPI.

TPI setting

By adjusting the following parameters, it will be possible to manage the TPI mode settings. The device comes by default with this parameter set to ON/OFF.

• **Prop. band**
• **Integrat. T.**
• **Cycle duration**
• **Min. duration**

Prop. band

This parameter allows to customize the proportional band in the range 1.0 ..8.0 °C. The device leaves the factory with parameter set on +2°C.

In order to set the proportional band, go ahead with the following procedure:

1. Select the parameter 'Prop. band' and push the key '≡'.
2. Set, with the keys '⋀' and/or '⋁' the needed proprtional band.
3. In order to confirm the choice and exit the menu, press the key '≡' or wait 15 sec. without pressing any key. In order to exit without saving the changes push the key '⏻'.

Integrat. T.

This parameter allows to customize the integral time of the proportional regulation in the range 0 .. 180 minutes (1 minute steps). When set to 0, no integral action will be done. The device leaves the factory with parameter set to 30 minutes.

In order to set the integral time, go ahead with the following procedure:

1. Select the parameter 'Intergral T.' and push the key '≡'.
2. Set, with the keys '⋀' and/or '⋁' the needed integral time.
3. In order to confirm the choice and exit the menu, press the key '≡' or wait 15 sec. without pressing any key. In order to exit without saving the changes push the key '⏻'.

Cycle duration

This parameter defines the duration of each TPI cycle in minutes, i.e. every how many minutes is the variable width pulse repeated. The parameter can be set in the range 15 .. 60 minutes. The device leaves the factory with parameter set on 30 minutes.

In order to set the cycle duration, go ahead with the following procedure:

1. Select the parameter 'Cycle duration' and push the key '≡'.
2. Set, with the keys '⋀' and/or '⋁' the needed cycle duration.
3. In order to confirm the choice and exit the menu, press the key '≡' or wait 15 sec. without pressing any key. In order to exit without saving the changes push the key '⏻'.

Min. duration

This parameter defines the minimum TPI pulse width i.e. the minimum output switch-on time.

When an electro-thermal actuator is wired to the output, this parameter must be set with the actuator's travel time, otherwise 'on' pulses of a lower time respect to the travel time would generate unuseful output actions. The parameter can be set in the range 0 .. 15 minutes. The device leaves the factory with parameter set on 3 minutes.

In order to set the minimum TPI pulse width, go ahead with the following procedure:

1. Select the parameter 'Min. duration' and push the key '≡'.
2. Set, with the keys '⋀' and/or '⋁' the needed minimum duration.
3. In order to confirm the choice and exit the menu, press the key '≡' or wait 15 sec. without pressing any key. In order to exit without saving the changes push the key '⏻'.

Regional config.

By setting the following parameters, it will be possible to manage the time format and the temperature measurement unit (Celsius

or Fahrenheit).

The device leaves the factory with the parameters set on 24h time mode and temperature display on Celsius degrees.

- **Time**
- **Degrees**

Time

This parameter allows to display the time format in 12h or 24h.

In order to set the time display, go ahead with the following procedure:

1. Select the parameter 'Time' and push the key ' ≡ '.

2. Set, with the keys ' ⋀ ' and/or ' ⋁ ', the time display mode.

3. In order to confirm the choice and exit the menu, press the key ' ≡ '.

   In order to exit without saving the changes, push the key ' ⏻ ' or wait 15 sec. without pressing any key.

Degrees

This parameter allows to display the temperature in Celsius or Fahrenheit.

In order to set the temperature measurement unit, go ahead with the following procedure:

1. Select the parameter 'Degrees' and push the key ' ≡ '.

2. Set, with the keys ' ⋀ ' and/or ' ⋁ ', the temperature measurement unit.

3. In order to confirm the choice and exit the menu, press the key ' ≡ '.

   In order to exit without saving the changes, push the key ' ⏻ ' or wait 15 sec. without pressing any key.

Deactivate Wi-Fi

This parameter, visible when Wi-Fi is on, has the function of disconnecting the wi-time from the Wi-Fi network.

To carry out the procedure, do the following:

1. On the option 'Deactivate Wi-Fi', press the key ' ≡ '.

2. The question 'Deactivate Wi-Fi ?' appears on the screen.
   Press the key ' ≡ ' for 'Yes' or the key ' ⏻ ' for 'No'.

3. If the key ' ≡ ', is pressed, the device is disconnected from the Wi-Fi network; in any moment it can be re-connected to the Wi-Fi via the "Enable Wi-Fi" parameter.
   On the contrary, if the ' ⏻ ', button is pressed, the device will return to the upper menu without any changes.

4. The device automatically returns to the upper menu after a few moments.

5. On the 'Home' screen the symbol ' 📶 ' will not be visible.

Activate Wi-Fi

This parameter, visible if Wi-Fi was previously disabled, has the function to reconnect the wi-time from the Wi-Fi network which was previously memorized.

To carry out the procedure, do the following:

1. On the option 'Activate Wi-Fi', press the key ' ≡ '.

2. The question 'Activate Wi-Fi ?' appears on the screen.
   Press the key ' ≡ ' for 'Yes' or the key ' ⏻ ' for 'No'.

3. If the key ' ≡ ' is pressed, the device reconnects to the Wi-Fi network.
   On the contrary, if the ' ⏻ ' button is pressed, the device will return to the upper menu without any changes.

4. The device automatically returns to the upper menu after a few moments.

5. On the 'Home' screen the symbol ' 📶 ' will be visible.

Enable config.

This parameter, visible only when the Wi-Fi is on, has two main functions:

- It allows to reconfigure a Wi-Fi network.
- It allows to pair a new user to the same programmable thermostat.

To enable the wi-time configuration, follow this procedure:

1. On the option 'Reconf. WiFi', press the key ' ≡ '.

2. On the screen, the following question appears: 'Enable configuration mode?'. Push the key ' ≡ ' for 'yes' or the key ' ⏻ ' for 'no'.

3. If the key ' ≡ ' is pressed, the device puts itself in reconfiguration mode and on the display a confirmation message appears. On the contrary, if the key ' ⏻ ' is pressed, the device will go back to the upper menu without saving any change.

4. On the 'Home' screen the blinking symbol ⚙ appears, showing that it is necessary to pair the programmable thermostat with the App (see chapter 'Pairing the programmable thermostat and App').

⚠ **WARNING**

If the power to the device is cut off and then restored, the latter will resume the operations by connecting to the latest Wi-Fi network stored (if available); this is also true if, through the procedure "Reconf. WiFi" the device was in reconfiguration mode.

Disable config.

This parameter is visible when the 'Configuration' mode is active (symbol ⚙); through this procedure it is possible to deactivate this mode and restore the Wi-Fi network previously set (if available).
In order to perform this procedure, follow these steps:
1. On the option 'Disable config.', press the key '≡'.
2. The message "Disable configuration mode?" will appear on the display.
3. With the keys '⋀' and '⋁' it is possible to select one of the two options that appear on the display: 'Yes' or 'No'.
4. To complete the procedure, choose 'Yes' confirming with the key '≡'; a confirmation message for the deactivation of the configuration mode appears on the display.
5. On the contrary, if the choice is 'No', the programmable thermostat goes back to the previous screen without saving any change.

⚠ **WARNING**

In case no SSID or password has been stored, the device will turn on the Wi-Fi anyway but it won't be able to connect to the web and it shows the symbol 📶 .

Default

Through this parameter it is possible to reset the user parameters so that all of those parameters are brought back to the default value.
Proceed as follows:
1. On the option 'Default', press the key '≡'.
2. A confirmation message appears on the screen.
3. The device automatically goes back to the upper menu after a few moments.

⚠ **WARNING!**

The data Default sets all the user parameters of the wi-time to factory values.

Device reset

Access this menu to restart the device:
1. On the menu 'Reset device', push the '≡' key.
2. The following question appears: 'Reset the device?'. Push the '≡' key for 'yes' or the '⏻' key for 'no'.
3. The device will automatically return to the upper menu after a few moments.

Infoservice

In this parameter is possible to get the information about the wi-time:
Hardware, Firmware CPU, Firmware Wifi and the MAC address of the device.