seitron
Innovation Technology

COMPLETE INSTRUCTION MANUAL

wi-time wall

seitron

Weekly Wi-Fi Programmable Thermostat

INDEX

WIRING DIAGRAM

The programmable thermostat wi·time wall can be powered at 85..264 V~ 50..60 Hz. The **L** and **N** terminals power the programmable thermostat at 85..264 V~ and are to be connected to the mains voltage with the neutral on the terminal **N**. Terminals 1, 2 and 3 are the contacts, voltage free, type SPDT of the output relay.

Figure 1 illustrates how to connect the programmable thermostat to a boiler. The boiler will be turned on when the programmable thermostat associated with output asks for heat (heating mode).

On Figure 2 it is shown how to connect a load (for example a pump) which is powered when the output is active and that is when the programmable thermostat requires heat (heating) using the NA relay terminal.

Follow the Fig. 1 or 2 connection diagram.

If the installation design includes a remote probe, a 10 kΩ NTC-type probe at 25 °C (accessory code STD 01) must be connected to terminals 6 and 7. If in doubt about the type of probe, please consult the manufacturer.

The device can be connected to a home automation control unit with which it will communicate via RS485 bus with MODBUS® RTU protocol. The RS485 bus is available at terminals 9 (A) and 8 (B).

The signals related to the RS485 port are double-insulated from the power supply terminals L and N and the output relay terminals 1, 2 and 3, as visible in the diagrams in Fig. 1 and 2. If the device is powered with voltage higher than 250 V~ the RS485 line is no longer double insulated from the power supply line. In this case, the system designer should consider adopting an RS485 device with input isolation to ensure safety.

In order to avoid an accidental disconnection of a wire that won't reduce the electrical insulation, it is necessary to tie together the cable groups with cable ties separating the power and load wires from those of the bus. Otherwise, the electrical inuslation won't be reduced if a wire is accidentally disconnected.

For more information on the operating mode and the communication protocol, it is necessary to contact the local dealer.

⚠ **WARNING**

- **To properly adjust room temperature, install the programmable thermostat far from heat sources, airstreams or particularly cold walls (thermal bridges). If a remote probe is used, the note should be applied to the probe and not to the thermostat.**
- **If the load driven by the programmable thermostat works with mains grid power, it is necessary that the connection is performed using an omnipolar switch complying with the current standards and with a contact opening distance of at least 3 mm in each pole.**
- **The installation and electrical connections of the device must be carried out by qualified personnel and in compliance with current standards.**
- **Before making any connections, make sure that the power supply is disconnected.**

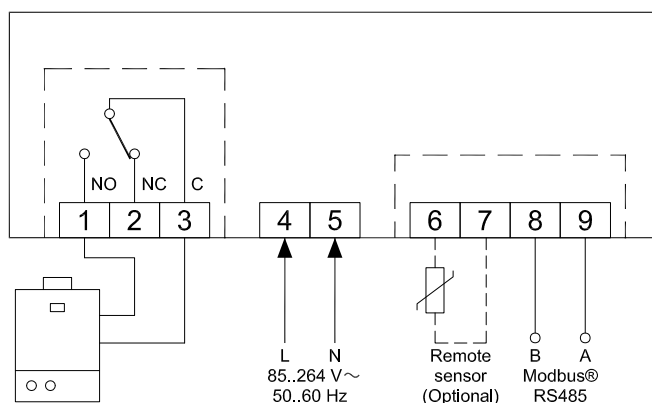**Follow the appropriate diagram make the electrical connections**
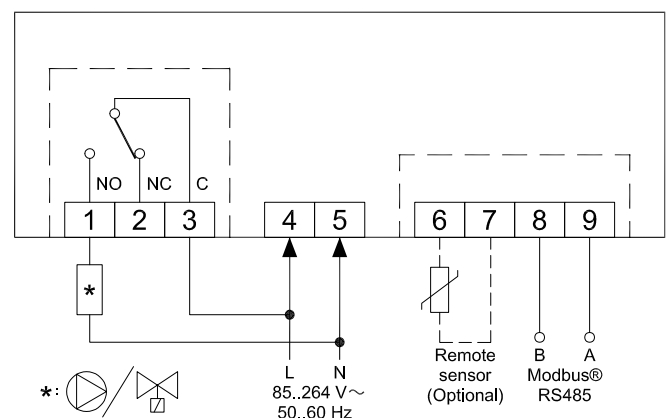

Fig. 1

Fig. 2

GCW03MR001SE 042381 061123

PROGRAMMABLE THERMOSTAT-APP PAIRING

After completing the steps described in the "INSTALLATION" chapter of the Quick Start Guide, you can proceed to connect and configure the device by following the step-by-step instructions and video tutorial in the Seitron Smart APP.

Device connection with App and Wi-Fi network
When the wi-time wall is associated with the App and connected to the Wi-Fi network, the display will show the " 📶 " icon for a few seconds; now the connected device can be remotely managed by the App.

WARNING
- **It may take a few minutes for the wi-time wall thermostat to appear on the App screen.**
- **Verify proper connection to the Wi-Fi network:**
  On the main screen of the programmable thermostats already associated with the App and connected to the Wi-Fi network, the symbol appears " 📶 " (only in the full visualization mode). The bars of that symbol are filled according to the quality of the available Wi-Fi signal.

UNPAIRED APP-PROGRAMMABLE THERMOSTAT

After completing the steps described in the "INSTALLATION" chapter of the quick start guide, you can use the programmable thermostat without pairing it with the Seitron Smart APP by proceeding as follows:
- When the display shows the pairing screen marked by the " ⚙ " symbol and the words " PAIRING ", hold down the " ⏻ " button for 5 seconds; the words " PAIRING " change to " SKIP " then the display switches to the minimal display.

WARNING
- **When the wi-time wall is not paired with the App, the only available room temperature control modes are manual and antifreeze.**
- **If "temporary manual" mode is selected, the programmable thermostat will carry out temperature adjustment in the same way as "permanent manual" mode.**
- **The "Program" control mode, if selected, will not make any room temperature adjustment.**

SwitchON ACCESSORY

The wi-time wall programmable thermostat can be used in association with the SwitchON remote device, which is featured with two relays. This can activate two loads at the same time without excluding the possibility to use the relay on the programmable thermostat.
In order to pair the wi-time wall with SwitchON, follow the procedure described in the PARAMETERS SETTING section = > P10 REMOTE CONFIG

OPERATION

DISPLAY VISUALIZATION

wi-time wall has two display modes:
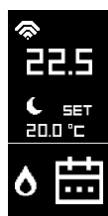
MINIMAL   or   COMPLETE

To switch from one display mode to the other, simply hold down the " ⏻ " key until the new display screen appears.

MINIMAL VISUALIZATION
The " minimal " display screen of the wi-time wall shows the following parameters:
• Detected ambient temperatures.
• The " 💧 " or " ❄ " symbols in case wi-time wall requires heating or cooling to be turned on.
• The " 🚀 " symbol in case the Boost mode has been activated from the App.
• The " symbol in case the Wi-Fi connection is absent.
• The " symbol in case the Wi-Fi connection is absent.

Pressing the " ⏻ " button once will display the current operation mode of the programmable thermostat and its setpoint temperature; waiting 3 seconds will return the programmable thermostat to the minimal display.

COMPLETE VISUALIZATION

The screen 'complete visualization mode' of the wi-time wall shows the following parameters:

- The "📶" symbol indicating the presence and intensity of the Wi-Fi connection.
- The "📶" symbol In case the Wi-Fi connection is absent.
- The "📶" symbol In case the connection to the cloud is absent.
- The "◯" symbol indicates the pairing between wi-time wall and SwitchON receiver.
- The "◯" symbol in case the pairing with the SwitchON radio receiver is absent.
- The detected ambient temperature.
- The control mode (Comfort " 🌙 " and Economy " ☀ ") and the setpoint temperature (SET) set.
- Symbols "🔥" or "❄" In case wi-time wall requires heating or cooling to be turned on.
- The "🚀" symbol in case Boost mode has been activated from the App.
- The mode of operation: Program "📅", Manual Temporary "☝", Manual Permanent "☝", Antifreeze "🛡" or "**OFF**" (turned off).

STARTUP

- Associate the programmable thermostat with the App as described in "PROGRAMMABLE THERMOSTAT-APP PAIRING."
- Set the operation mode of the programmable thermostat on Heating (Default setting) or Cooling.

OPERATION LOGIC

In "heating" mode, when the room temperature detected by the internal sensor (or alternatively by the remote probe if connected), is lower than the set temperature (by program or manually), wi-time wall activates the relay to start the boiler and the display shows the icon " 🔥 ".

In "cooling" mode, when the room temperature detected by the internal sensor (or alternatively by the remote probe if connected), is higher than the set temperature (by program or manually), wi-time wall activates the relay to start the boiler and the display shows the icon " ❄ ".

SETTING HEATING/COOLING MODE

To change the regulation mode from heating to cooling and vice versa, proceed as follows:

1. From the main screen (minimal or full display) hold down the " ⌄ " and " ⌃ " buttons simultaneously until "COOL" or "HEAT" appears on the display.
2. At this point release the keys; the programmable thermostat will have set the operating mode in accordance with the wording on the display (COOL = cooling, HEAT = heating).

AMBIENT TEMPERATURE REGULATION MODE

Press the " ⏻ " button once, the wi-time wall programmable thermostat shows the current operation mode active at that moment (this function is only available on the "minimal" display mode).

By pressing the " ⏻ " button further, it is possible to modify the operation mode of the wi-time wall programmable thermostat choosing among the 4 different modes:

=> "📅" (Program) => "☝" (Manual Temporary) => "☝" (Manual Permanent) => "🛡" (Antifreeze) or "**OFF**" (turned off) =>

Once one of the modes has been selected, after a 3-second wait, the wi-time wall programmable thermostat assumes the new operating mode and returns to the main screen, if in minimal display.

Only in the case where "🛡" or "**OFF**" mode has been selected, after the 3-second wait the programmable thermostat will not return to the main screen, but will display the antifreeze "🛡" (with its antifreeze temperature set) or "**OFF**" setting.

Program "📅"

The wi-time wall programmable thermostat regulates the room temperature according to the weekly program set exclusively through the Seitron Smart APP.

Detail:
- The possible regulation modes are the following:

  On heating mode: Off/Antifreeze, Comfort or Economy (reduction).

  On cooling mode: Off, Comfort or Economy (reduction).
- Normally on 'Heating' mode, to have a night set-back, the economy temperature shall be lower than the comfort temperature.

  On the contrary, in 'Cooling' mode, the economy temperature must have a higher value than that of comfort.

Temporary manual mode "⟨⟩"

The wi-time wall programmable thermostat regulates the room temperature according with the manually set temperature setpoint until midnight of the current day, and then goes back to the 'Program' mode.

The setpoint temperature can be changed by acting on the " ∨ " and " ∧ " keys of the wi-time wall programmable thermostat as well as on the Seitron Smart APP.

Manual mode "⟨⟩"

The wi-time wall programmable thermostat regulates the room temperature according with the manually set temperature setpoint, permanently or until you change the adjustment mode directly on the wi-time wall programmable thermostat or using the Seitron Smart APP.

The setpoint temperature can be changed by acting on the " ∨ " and " ∧ " keys of the wi-time wall programmable thermostat as well as on the Seitron Smart APP.

Antifreeze "⟨⟩"

The wi-time wall programmable thermostat regulates the room temperature according with the antifreeze temperature, set on the advanced parameters of the wi-time wall programmable thermostat on menu "P01: ANTI FROST".

The **ANTI-FREEZE** mode "⟨⟩" is available only if the programmable thermostat has been set in heating mode and if the set antifreeze temperature is greater than 0.5°C; otherwise the display shows OFF.

OFF

If the display shows the writing ' OFF ', the wi-time wall programmable thermostat is turned off.

SETPOINT TEMPERATURE SETTING FOR MANUAL MODES

From the main screen, pressing one of the " ∨ " or " ∧ " keys will bring the wi-time wall programmable thermostat into the Temporary Manual operation mode and display the relevant setpoint temperature set for the manual modes (Permanent Manual "⟨⟩" and Temporary Manual "⟨⟩"). Pressing the " ∧ " and " ∨ " buttons again will go to setpoint temperature for manual modes only.

BOOST

This mode is only available using the Seitron Smart APP.

By activating this mode, the wi-time wall programmable thermostat forces the cooling or heating system ON (depending on the active setting) for a time selectable between 30, 60 or 90 minutes regardless of the setpoint temperature. This function is useful if you have to heat or cool a particularly cold or hot environment.

SWITCHING OFF

To turn off the programmable thermostat, select the "OFF" operating mode by repeatedly pressing the " ⏻ ".

⚠ WARNING

- **In the case where the programmable thermostat is set in heating mode, it is necessary for the anti-freeze parameter to be set to "OFF" (see chapter "ADVANCED CONFIGURATION").**

ARROW KEYS LOCK

In order to lock / unlock the up and down arrow keys feature, " ∧ " and " ∨ ", Press the " ⏻ " and " ∧ " buttons simultaneously for 10 seconds.

⚠ WARNING

- **With the arrow keys locked, it is only possible to change the operation mode of the wi-time wall by cycling between the 4 available modes: => "⟨⟩" => "⟨⟩" => "⟨⟩" => "⟨⟩" or "OFF" => .**
- **Changing the set point temperature will not be possible.**
- **From App, all functionality will continue to be allowed.**

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 this case the room temperature is regulated according to the value set on the antifreeze parameter (see paragraph "CONFIGURATION PARAMETERS").

If the "Antifreeze" parameter is set to "OFF" or if at condition 3, the programmable thermostat will be set to "Cooling" mode and the display will show "OFF" (the programmable thermostat is off).

REMOTE TEMPERATURE SENSOR

The wi·time wall 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 cases where the installation involves remote probe mounting, a 10 KOhm NTC-type probe at 25°C must be connected to terminals 6 and 7 as shown in the connection diagrams in "CONNECTION DIAGRAMS."

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

The programmable thermostat automatically recognizes 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.

MODBUS

The wi·time wall can be connected to a home automation control unit with which it will communicate via RS485 bus, with MODBUS® RTU protocol. In this way, both relay output status and proportional status can be read to perform proportional (modulating) control.

For more information on the mode of operation and MODBUS® communication protocol, you should contact your local distributor.

CONFIGURATION SETTINGS

To enter the advanced user parameter configuration of the wi-time wall programmable thermostat, proceed as follows:

1. Hold down at the same time for 10 seconds the keys " ⏻ " and " ⌄ "; the display shows the symbol " ✦ " and the first available parameter.
2. Repeatedly press the key " ⏻ " to scroll the user parameters:

P01 ANTI FROST	**(Antifreeze)**
P02 OFFSET	**(OFFSET room temperature indoor sensor or remote sensor)**
P03 HYST	**(Hysteresis)**
P04 PROP BAND	**(Proportional band)**
P05 INTEGR TIME	**(Integrative time)**
P06 TMIN HEAT	**(Minimum heating temperature)**
P07 TMAX HEAT	**(Maximum heating temperature)**
P08 TMIN COOL	**(Minimum cooling temperature)**
P09 TMAX COOL	**(Maximum cooling temperature)**
P10 REMOTE CONFIG	**(SwitchON device configuration)**
P11 MODBUS ID	**(ID MODBUS settings)**
P12 WI-FI CONFIG	**(Activate Wi-Fi configuration)**
P13 RESET FACT DEFS	**(Restore factory settings)**
P14 INFO SERVICE	**(Programmable thermostat info visualization)**

3. Depending on the selected parameter, you can change its value by acting on the " ⌃ " and " ⌄ " buttons or activate/deactivate the respective function by pressing the " ⏻ " button for 10 seconds.
4. Set the data related to each single parameter, as shown below.
5. To exit the programming of the user parameters wait 15 seconds without pressing any key.

P01 ANTI FROST (Antifreeze)

The Antifreeze function allows to set a minimum temperature which is maintained when the wi-time wall is set on heating mode and on the current time slot no comfort or reduction temperature is specified or on the programmable thermostat the antifreeze mode has been activated ("❄"); this function allows to preserve the environment and the system if the temperature drops below the set limit.
The device exits the factory with the antifreeze set to 6.0 °C.

The antifreeze temperature can be set between 0.5 °C and 10.0 °C. Below 0.5 °C the antifreeze is deactivated and the wi-time wall programmable thermostat, when this mode is selected, will be completely off (OFF).

To adjust the antifreeze temperature, perform the following steps:

1. Having selected the "P01 ANTI FROST" parameter, adjust the desired antifreeze temperature with the " ⌃ " and/or " ⌄ " buttons; the setting is saved automatically.
2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

P02 OFFSET (Room temperature offset indoor sensor or remote sensor if connected)

By using this parameter, it is possible to correct the temperature detected by the temperature sensor inside the wi-time wall programmable thermostat or by the remote sensor if connected to the wi-time wall, by ±5 °C, so as to correct any systematic reading errors due to placement of the wi-time wall programmable thermostat/remote sensor in areas unsuitable for detecting room temperature.
The device leaves the factory with the Offset set to 0.0 °C.

To adjust the sensor Offset temperature, perform the following steps:

1. Having selected the "P02 OFFSET" parameter, adjust with the " ⌃ " and/or " ⌄ " keys to the temperature offset you wish to set; the setting is saved automatically.
2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

P03 HYST (hysteresis setting)

Setting this parameter allows to define the hysteresis (differential) in °C, which is used by the programmable thermostat for ON/OFF regulation. In heating mode, the activation of the wi-time wall output relay occurs at the setpoint temperature minus the set hysteresis value, while the shutdown occurs when the setpoint temperature is reached. In "Cooling" mode, the behavior is mirrored.
The parameter can be set in the range 0.1 °C ... 5.0 °C. The device leaves the factory with the hysteresis set to 0.2 °C.
WARNING!
The modification of this parameter must be carried out by qualified personnel, as an inappropriate value can cause malfunctions.
To adjust the differential, perform the following steps:

1. Having selected the "P03 HYST" parameter, adjust with the " ⌃ " and/or " ⌄ " buttons the hysteresis you wish to set; the setting is saved automatically.
2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

P04 PROP BAND (Proportional band)*

This parameter allows you to adjust the proportional band in the range 1.0 °C .. 8.0 °C.

The device, by default, has this parameter set at 2 °C.

To set the proportional band, proceed as follows:

1. Having selected the "P04 PROP BAND" parameter, adjust with the " ∧ " and/or " ∨ " keys the proportional band you wish to set; the setting is saved automatically.

2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

P05 INTEGR TIME (Integrative time)*

This parameter allows you to choose the integrative time in the range 0 .. 180 minutes.

If set to **0**, there will be no supplementary action and there will be a **P** type regulation, otherwise there will be a **P + I** type regulation.

The device, by default, has this parameter set at 60 min.

To set the integrative time, proceed as follows:

1. Having selected the "INTEGR TIME" parameter, adjust with the buttons " ∧ " and/or " ∨ " the integrative time you want to set; the setting is saved automatically.

2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

P06 TMIN HEAT (Minimum heating temperature)

This parameter defines the minimum temperature that can be set using the " ∧ " and " ∨ " buttons, when the wi-time wall programmable thermostat is set in "Heating" mode. This parameter can be set between 5.0 °C and 40.0 °C.

The device leaves the factory with the parameter set at 5.0 °C.

To set the minimum temperature, proceed as follows:

1. Having selected the "P06 TMIN HEAT" parameter, adjust with the " ∧ " and/or " ∨ " keys the temperature you wish to set (obviously it must be a lower value than the temperature set on TMAX HEAT); the setting is saved automatically.

2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

P07 TMAX HEAT (Maximum heating temperature)

This parameter defines the maximum temperature that can be set using the " ∧ " and " ∨ " buttons, when the wi-time wall programmable thermostat is set in "Heating" mode. This parameter can be set between 5.0 °C and 40.0 °C.

The device leaves the factory with the parameter set to 40.0 °C.

To set the maximum temperature, proceed as follows:

1. Having selected the "P07 TMAX HEAT" parameter, adjust with the " ∧ " and/or " ∨ " keys the temperature you wish to set (obviously it must be a higher value than the temperature set on TMIN HEAT); the setting is saved automatically

2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

P08 TMIN COOL (Minimum cooling temperature).

This parameter defines the minimum temperature that can be set using the " ∧ " and " ∨ " buttons, when the wi-time wall programmable thermostat is set in "Cooling" mode. This parameter can be set between 5.0 °C and 40.0 °C.

The device leaves the factory with the parameter set to 5.0 °C.

To set the minimum temperature, proceed as follows:

1. Having selected the "P08 TMIN COOL" parameter, adjust the temperature you wish to set with the " ∧ " and/or " ∨ " keys (obviously it must be a lower value than the temperature set on TMAX COOL); the setting is saved automatically.

2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

* Dedicated MODBUS® registers must be read to gain access to the proportional band output. The relay output can be used, for example, to activate a circulation pump when the proportional output is greater than 0%.

The status of the output relay is also available via MODBUS® register.

P09 TMAX COOL (Maximum cooling temperature).

The parameter defines the maximum temperature that can be set using the " ⋀ " and " ⋁ " buttons, when the wi-time wall programmable thermostat is set in "Cooling" mode. The parameter can be set between 5.0 °C and 40.0 °C.
The device leaves the factory with the parameter set to 40.0 °C.
To set the maximum temperature, proceed as follows:
1. Having selected the "P09 TMAX COOL" parameter, adjust with the " ⋀ " and/or " ⋁ " keys the temperature you wish to set (obviously it must be a higher value than the temperature set on TMIN COOL); the setting is saved automatically.
2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key in order to exit from the parameters menu.

P10 REMOTE CONFIG (Activate remote)

This parameter allows to set the wi-time wall to manage the SwitchON device remotely.
To configure the device, proceed as follows:
1. Select "P10 REMOTE CONFIG".
2. On the screen, the write "OFF" appears (Deactivated - Default factory settings) or "ON" (Activated).
3. Push for 10 seconds the button " ⏻ " to activate (OFF = > ON) or deactivate (ON= > OFF) the configuration.
4. By activating the configuration, the parameters list expands, and the following options will be available:
* **R01   REMOTE LIST**
* **R02   SEARCH REMOTE**
* **R03   REMOTE DELAY**
5. Push the button " ⏻ " to scroll the above mentioned parameters.
   Wait 15 seconds without pressing any key to go back to the "P10 REMOTE CONFIG" parameter.
   To go back to the main menu, go to the R03 REMOTE RELAY parameter and push the button " ⏻ ", the next parameter will be "P11: MODBUS ID".

⚠ **WARNING**
- The wi-time wall can be paired to a maximum of two SwitchON devices.
- In order to pair the wi-time wall to the SwitchON it is necessary that the programmable thermostat has already been paired with the Seitron Smart App.
- Once the pairing between wi-time wall => SwitchON is performed, these two devices will continue to communicate even without wi-fi connectivity.

R01 REMOTE LIST

The parameter lists:
- the last 4 characters of the MAC address of the paired SwitchON, preceded by Rn where n is the number indicating the order of pairing (e.g., R1, R2).
- the number of SwitchOn associated with the programmable thermostat, preceded by #REM: (e.g. #REM: 2 if two SwitchONs have been paired).
Press the " ⏻ " key to move to the next parameter or wait 15 seconds without pressing any key to return to the "P10 REMOTE CONFIG" parameter. To return to the main menu, go to the parameter "R03 REMOTE RELAY" and press the " ⏻ " key to move to the parameter "P11 MODBUS ID".

R02 SEARCH REMOTE

The parameter activates the search and pair function to the SwitchON.
To start the operation, proceed as follows
1. Switch to pairing mode on the SwitchON device you want to pair byfollowing the directions in the dedicated instruction manual.
2. Select "R02 SEARCH REMOTE" then press the " ⏻ " button for 5 seconds. The wi-time wall activates the search mode and the hourglass symbol appears on the display.
3. If the wi-time wall receives the radio signal from the SwitchON then it performs the pairing and the display shows:
   - the last 4 characters of the MAC address of the paired SwitchON, preceded by Rn where n is the number indicating the order of association (e.g., R1, R2)
   - the number of SwitchOn paired with the programmable thermostat, preceded by #REM: (e.g. #REM: 1 if only one SwitchON has been associated).
4. The programmable thermostat automatically switches to parameter "R03 REMOTE RELAY" (see section "R03 REMOTE RELAY").
5. The display shows the " ⊘ " symbol (in full display) indicating that the wi-time wall is connected and communicating with the paired SwitchON.

⚠️ **WARNING**

When placing the wi-time wall and SwitchON in the designated areas, make sure that the two devices are connected and communicating properly. If the dislocation of the devices is such that their communication is impaired, the symbol " ⌀ " will appear on the display. In this case, it is advisable to move the devices closer together, finding a better arrangement, while making sure that they are not in the vicinity of metal screens or concrete walls that may weaken the radio signal strength.

R03 REMOTE RELAY

This parameter allows to define the control mode of the two relays with which the SwitchON device is featured with.
It is possible to choose from one of the three combinations described below:

RL1 TPX RL2 TPX
Relays RL1 and RL2 of the SwitchON are controlled according to the setpoint temperature in Cooling or Heating set on the wi-time wall.

RL1 TPC RL2 TPH
Relay RL1 of the SwitchON is controlled according to the setpoint temperature in Cooling set on the wi-time wall.
Relay RL2 of the SwitchON is controlled according to the setpoint temperature in Heating set on the wi-time wall.

RL1 TPX RL2 H/C
Relay RL1 of the SwitchON is controlled according to the setpoint temperature set on the wi-time wall.
Relay RL2 of the SwitchON is controlled according to the operating logic set on the wi-time wall: normally closed in Heating and normally open in Cooling.

To set the desired configuration, proceed as follows:
1. Select "R03 REMOTE RELAY"
2. Press " ⋀ " or " ⋁ " to choose the control mode. The setting will be saved automatically.
3. Wait 15 seconds without pressing any key to return to parameter "P10 REMOTE CONFIG". Press the " ⏻ " key to return to the main menu by switching to parameter "P11 MODBUS ID".

P11 MODBUS ID (MODBUS® ID Setting)

The parameter allows the MODBUS® address of the wi-time wall programmable thermostat to be set.
The device leaves the factory with the parameter set to 2.

To set the parameter, proceed as follows:
1. After selecting the "P11 MODBUS ID" parameter, use the " ⋀ " and/or " ⋁ " buttons to set the MODBUS® address of the device; the setting is saved automatically.
2. Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key to exit from the parameters menu.

P12 WI-FI CONFIG (Enable Wi-Fi Configuration)

This parameter has two main functions:
- It allows you to reconfigure a Wi-Fi network.
- It allows a new user to be associated with the same programmable thermostat.

To carry out the procedure, perform the following steps:
1. Having selected the "WI-FI CONFIG" parameter, press and hold the " ⏻ " button for at least 10 seconds.
2. The display of the wi-time wall shows "WI-FI CONFIG OK".
3. After a few moments, the programmable thermostat will restart and the Pairing screen will appear for 2 minutes; the display shows " ⚙ " and the words " PAIRING ".
4. Proceed as described in the chapter "PAIRING PROGRAMMABLE THERMOSTAT-APP".

⚠️ **WARNING**

In the event that power is lost to the device and subsequently restored, the device will resume operation by connecting to the last stored Wi-Fi network (if available); this applies even if during the "WI-FI CONFIG" procedure the device was in reconfiguration mode.

P13 RESET FACT DEFS (Resets the PROGRAMMABLE thermostat back to factory settings)

By using this parameter the user parameters can be reset so as to bring all parameters to the factory-set default values.

Proceed as follows:

1. Having selected the "P13 RESET FACT DEFS" parameter, press and hold the " ⏻ " key for at least 10 seconds.
2. The display of the wi-time wall shows "RESET FACT DEFS OK".
3. After a few moments, the programmable thermostat will restart and the Pairing screen will appear for 2 minutes; the display will show " ⚙ " and the words " PAIRING ".
4. Proceed as described in the chapter "PAIRING PROGRAMMABLE THERMOSTAT-APP" to pair the programmable thermostat with the APP.
5. Reprogram the programmable thermostat wi-time wall as described in the chapter "OPERATION".

P14: INFO SERVICE (Programmable thermostat info visualization)

This parameter provides the following information related to the wi-time wall programmable thermostat:

- MAC address of the device
- Firmware version
- The sensor used for room temperature control: INT (internal) or EXT (remote probe).
- Received signal strength indicator (RSSI).

Press the " ⏻ " key to select the next parameter or wait 15 sec. without pressing any key to exit from the parameters menu.
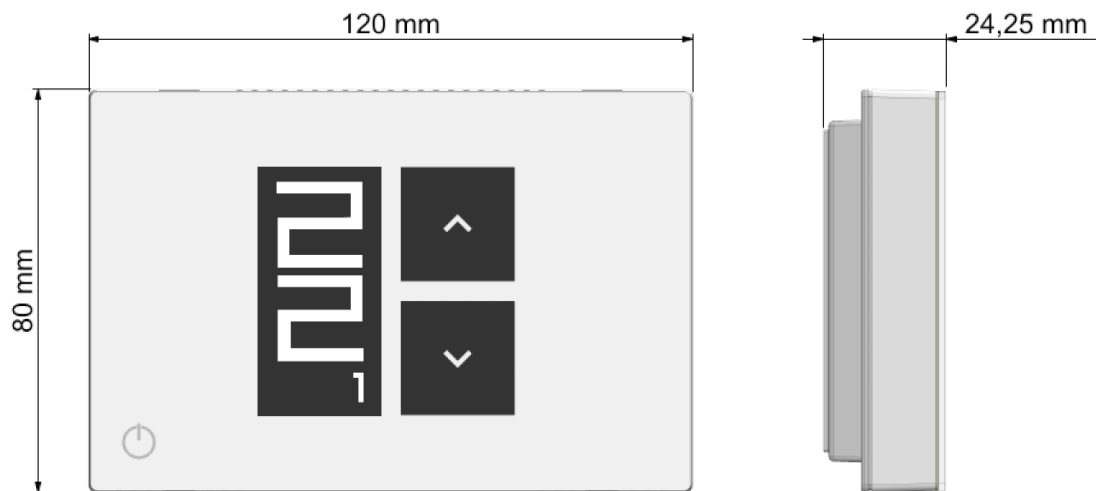
TECHNICAL FEATURES

Power supply:	85 .. 264 V ~ 50 .. 60 Hz
Power absorption:	< 2 W
Contact rating:	3 A 250 V ~ SPDT
Communication port:	MODBUS® RTU
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
Internal sensor type:	NTC 10 K Ohm ± 1% @ 25 °C
Remote sensor type (optional):	NTC 10 K Ohm ± 1% @ 25 °C
Precision:	± 1 °C
Resolution:	0.1 °C
Hysteresis:	0,1 °C .. 5 °C (Default 0,2 °C)
Antifreeze:	OFF / 2 °C .. 25.0 °C (Default 3,0 °C)
Temp. sensor offset:	± 5.0 °C. (Default 0.0 °C)
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:	2500 V
Number of manual cycles:	1.000
Number of automatic cycles:	100.000
Software class:	A
EMC test voltage:	230 V ~
EMC test current:	25 mA
Distances tolerances fault mode 'short' exclusion:	± 0,15 mm
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

CLASSIFICATION UNDER REG. 2013.811.CE

Class:	V
Contribution to energy efficiency:	3 %

DIMENSIONS

120 mm

24,25 mm

80 mm

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 2019/771/EU as well as to the manufacturer's document about the warranty policy.

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

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