wi-time Wi Fi ™

Weekly Programmable
WiFi Thermostat

08:50
21,0°
Heat up to 23,0°

08:50
21,0°
Heat up to 23,0°

seitron
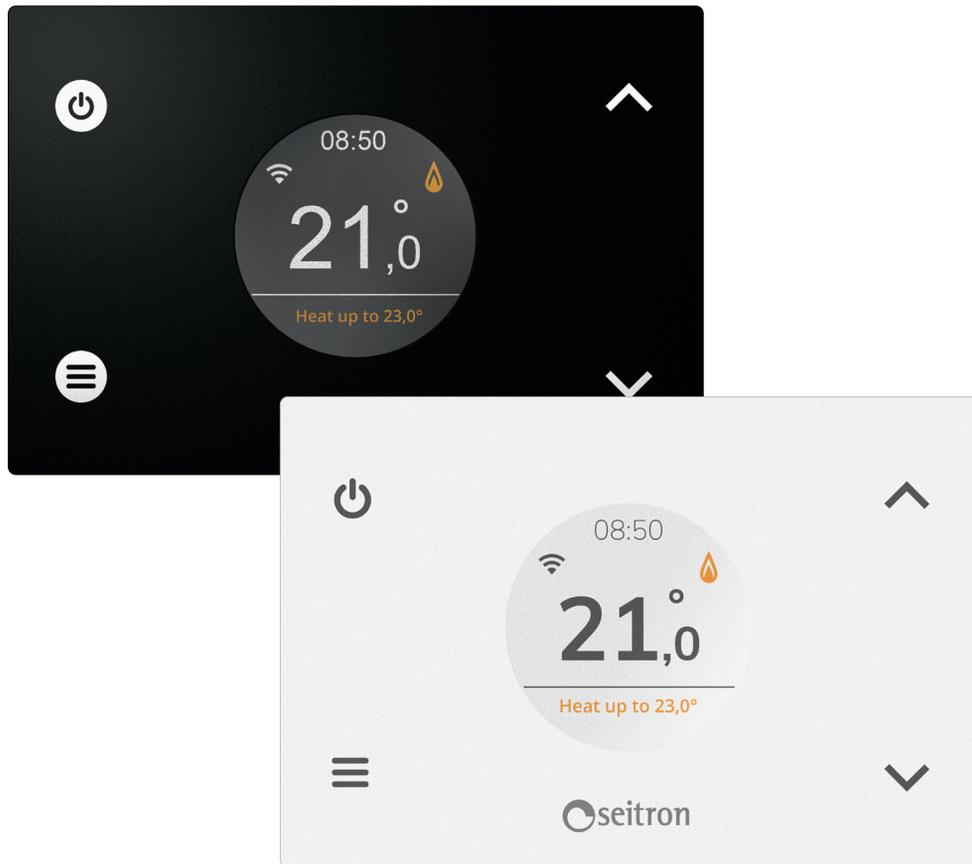
COMPLETE INSTRUCTION MANUAL

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.
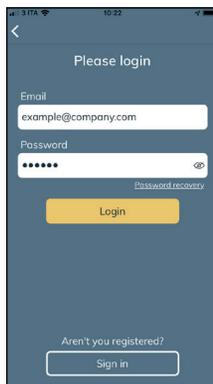
If you are not registered, push the button 'Sign in'.

3 Pair a new wi-time with the dedicated App
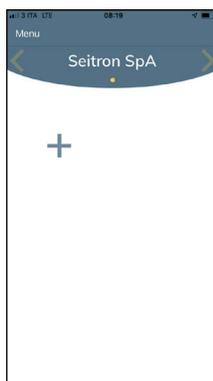
Push '➕'
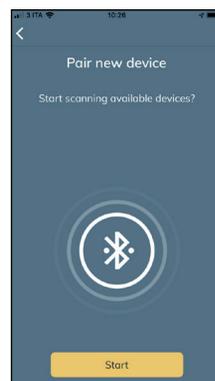
Push 'Start'

4 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.

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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 'Mod. 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 'Mod. manual' has been set to 'Manual 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 'Mod. manual' has been set to ' Manual 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.

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:	OFF / 2°C .. 10.0°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:	3V⎓
EMC test current:	38mA
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:	I
Contribution to energy efficiency:	1%

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
   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 brightness of the display on two levels and turn on/off the white LEDs which are located on the four corners 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 related to the 4 white LEDs located on the corner of the display).
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. About the parameter 'Backlight', through the keys '⋀' and '⋁' choose 'yes' (key '≡') or 'no' (key '⏻') to turn on/off the LEDs.
7. 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'.

GIW01MR001SE 033622 031219

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**
• **Mod. manual**
• **Antifreeze**
• **Offset**
• **Hysteresis**
• **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. The display shows the confirmation message that the desired mode has been set.
3. To exit the menu, select the option 'EXIT' or push the key ' ⏻ ' or wait 15 seconds without pushing any button.

Mod. 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 manual mode or Permanent manual mode.

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

Permanent manual mode
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 'Mod. Manual' option, press the key ' ≡ '.
2. Select with the keys ' ∧ ' and/or ' ∨ ' which mode to set; press the key ' ≡ ' to confirm the choice. The display shows the confirmation message that the desired mode has been set.
3. 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 $\pm 5°C$, 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.

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.

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.

WIRING DIAGRAM

⚠ **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.
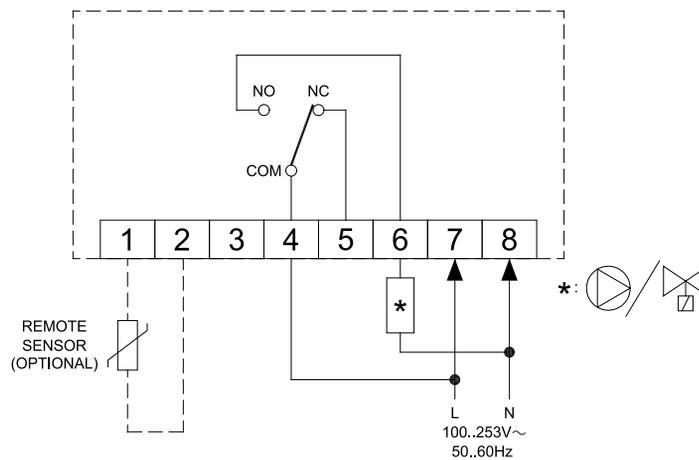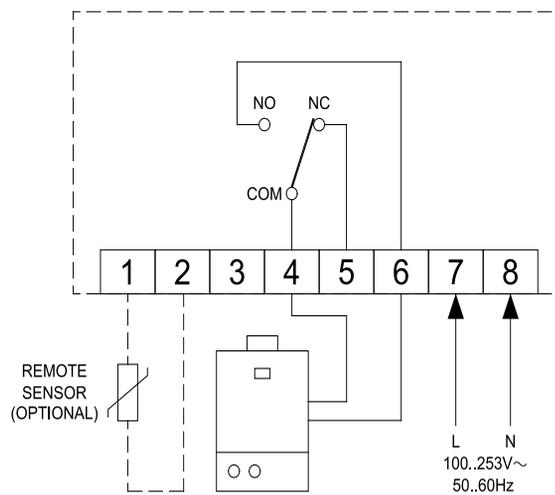
NO   NC

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)

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*:

L   N
100..253V∼
50..60Hz

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.

GIW01MR001SE 033622 031219