Error messages:
- "Chrono Error", in case of error in the reading of The Clock chip.
- "OT error" in case of lack of connection with boiler bus
- "Alarm XX", in case of boiler alarm, consult boiler manual

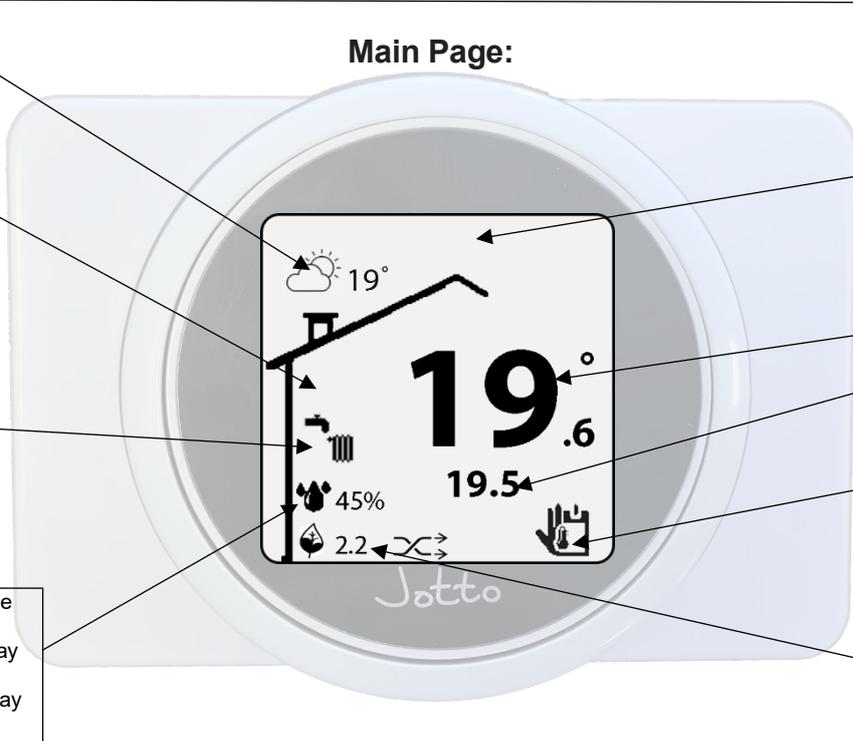☁ : External weather
19° : external Temperature
🌐 : No internet
✈ : No Wifi Network

Request: See page 3
↑ : Heating
↓ : Cooling

Operation mode:
OFF: System off
▥ : heating only
🚰 : DHW only
▥ : heating +DHW
❄🚰 : Cooling + DHW
❄ : Cooling
See p. 3

Humidity: reads the humidity value present in the room.
◯ : Indicates the status of the Relay at Off.
💧 : Indicates the status of the relay to On.

Main Page:

☁ 19°

19.°
.6
19.5

💧 45%
🔥 2.2 ⤫➔

Ambient temperature detected. See p. 2

desired ambient temperature. See p. 2

📅🌡 Active chrono
📅✋ Semi-active chrono -Party
✋ chrono off / Manual

🍃 It is colored black depending on the value of the air quality detected:
from 1 empty = excellent to 5 all black = very bad.
⤫➔ : Indicates the status of the VMC machine relay .

⚡ **GENERAL INSTALLATION WARNINGS**

This manual has been prepared for the installer and also includes basic instructions for the end user.
Carefully read the warnings contained in this document that provide guidance on the technical characteristics and instructions for installation, assembly, programming, adjustment and use.
Installation of the device must be carried out in accordance with the regulations in force regarding electrical installation.
This instruction manual must be "kept for future reference".
After removing the packaging, make sure of the integrity of the Programmable Thermostat and the power supply supplied. In case of doubt, do not use them and contact your Dealer or Manufacturer.
The Chronothermostat is intended only for the use for which it was expressly designed. Any other use is to be considered improper and therefore dangerous.
Our products are manufactured in compliance with current safety regulations. During the installation and use of the same it is recommended to observe all precautions to avoid causing damage to people or things.
Do not disassemble parts of the programmable thermostat when it is in operation. Do not use the programmable thermostat exposed to heat sources or direct sunlight.
The manufacturer is relieved of any liability in the following cases:

a) Incorrect installation.
c) Modifications or interventions not authorized by the manufacturer.
e) Exceptional events, etc.

b) Malfunctions of the boiler to which the Programmable Thermostat is connected
d) Total or partial non-compliance with the instructions.

N.B.: the programmable thermostat must be installed less than 2 meters above the floor;
N.B.: the programmable thermostat cannot be installed less than 20 cm from the human body.

N.B.: the Chronothermostat cannot be installed outside the house;

Electrical connection Chronothermostat.
N.B.: before making any electrical connection make sure that all the appliances involved are disconnected from the mains.
N.B.: Chronothermostat must be powered exclusively using the power supply supplied as standard with the product.
N.B.: For the connection of the 2-pole clamp of the relay on the Programmable Thermostat, read the instructions below.
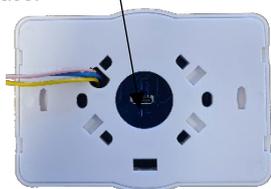Connect the open contact of the Chronothermostat in the boiler consent, check the boiler manual where this consensus is located, usually called an external thermostat). If the boiler has an OT bus connection, use the BUS connector on the programmable thermostat. N.B.: for a correct installation, prepare a dedicated power line for connecting the Programmable Thermostat according to current regulations regarding electrical systems. If this is not possible, any disturbances due to other electrical cables could cause the module to malfunction.
The power supply of the Chronothermostat must be connected to a 230Vac / 50Hz network in compliance with current regulations on electrical installation, providing in any case an omnipolar disconnection device with class III overvoltage category.
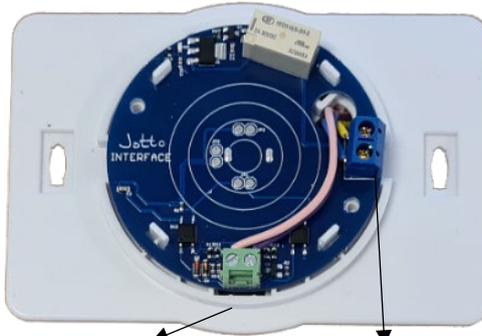
1: Connect the power supply

Connect the supplied power supply to the 220Vac supply voltage, use terminals or lugs of the correct size.
Connect the USB-C cable to the back of the Jotto GB interface.

2:connect the interface

Boiler Bus Connector: Connect any bus connection (OT) cable from the boiler if equipped with an OT bus connection. Use a cable diameter max 1mm²

Relay contacts: Connection to boiler, air conditioners, zone solenoid valves. Clean contact ⌐o⌐o use a cable diameter max 1mm²

3: Insert the interface cover

Once the cables are connected, apply the interface cover, taking care to place the word "UP" at the top. Secure it with the screws supplied.

At this point insert the plate cover, then the thermostat and restore the general voltage.
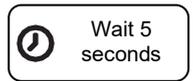
Navigation Gestures:

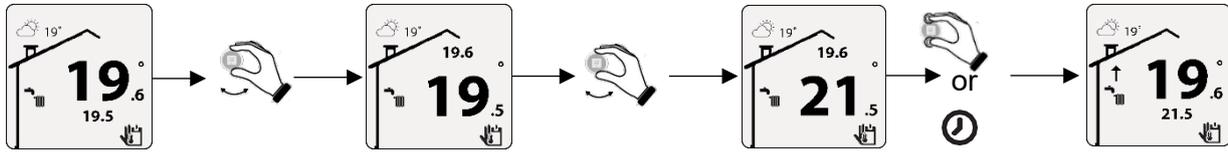|			
Wheel	Right to increase or moven clockwise, left to decrease or move counterclockwise	**Press (click)**	To confirm the set data, or to select a data.
Press&old for 3 sec.	To access the setup menus, or to return to the main page	**Wait 5 seconds**	

The icons when they are on a black background 🔲, it means that they are being set, when they are on a transparent background 🔲, it means that the value has been set .
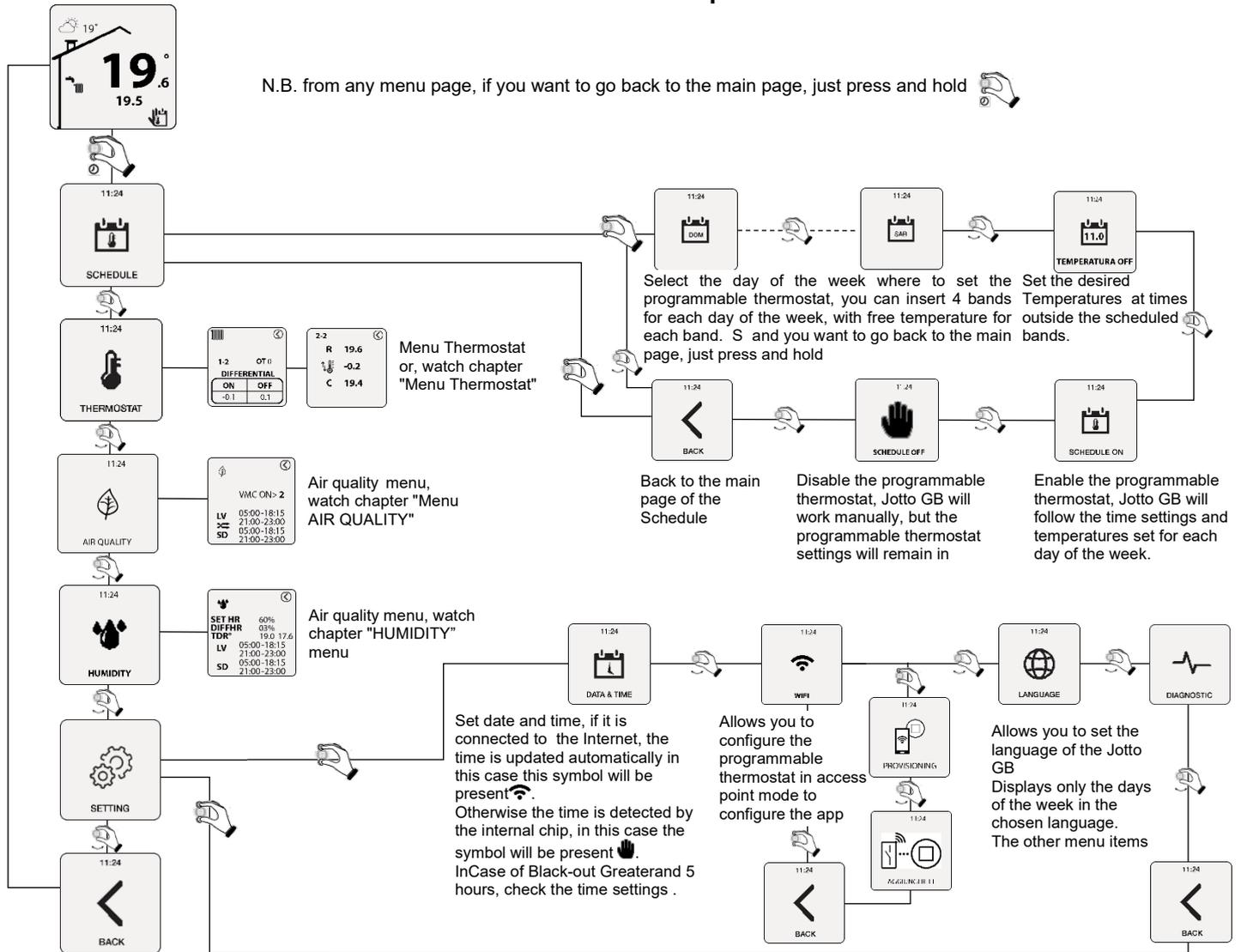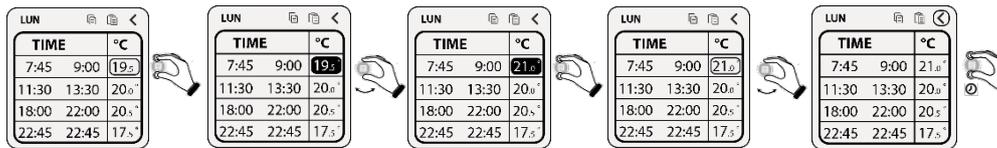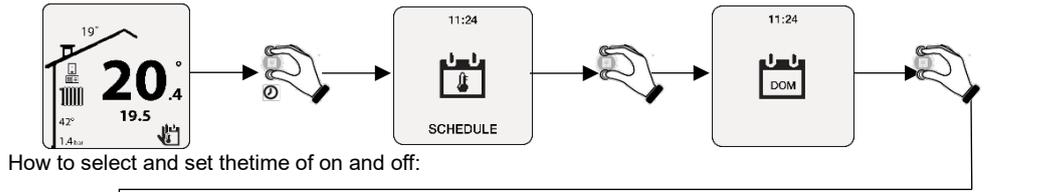
Set the temperature:

From the main menu, simply rotate to raise or lower the temperature, then click again to confirm or wait 3 seconds.

Jotto GB menu description

N.B. from any menu page, if you want to go back to the main page, just press and hold 🖐

SCHEDULE

Select the day of the week where to set the programmable thermostat, you can insert 4 bands for each day of the week, with free temperature for each band. S and you want to go back to the main page, just press and hold

TEMPERATURA OFF — Set the desired Temperatures at times outside the scheduled bands.

THERMOSTAT — Menu Thermostat or, watch chapter "Menu Thermostat"

BACK — Back to the main page of the Schedule

SCHEDULE OFF — Disable the programmable thermostat, Jotto GB will work manually, but the programmable thermostat settings will remain in

SCHEDULE ON — Enable the programmable thermostat, Jotto GB will follow the time settings and temperatures set for each day of the week.

AIR QUALITY — Air quality menu, watch chapter "Menu AIR QUALITY"

HUMIDITY — Air quality menu, watch chapter "HUMIDITY" menu

SETTING

DATA & TIME — Set date and time, if it is connected to the Internet, the time is updated automatically in this case this symbol will be present 📶. Otherwise the time is detected by the internal chip, in this case the symbol will be present 🖐. InCase of Black-out Greaterand 5 hours, check the time settings .

WIFI — Allows you to configure the programmable thermostat in access point mode to configure the app

PROVISIONING

AGGIUNGHETT

BACK

LANGUAGE — Allows you to set the language of the Jotto GB Displays only the days of the week in the chosen language. The other menu items

DIAGNOSTIC

BACK

BACK

Set the programmable thermostat function:

How to select and set the time of on and off:

How to select and set the desired temperature:

Click and then turn to change the day or if I click, and then turn I change the day of the week or of the week

copy the whole day
paste the whole day
Exit

Thermostat menu:

Menu Thermostat | you can set the values of the dead bands, set the mode of operation of the Jotto GB, set the priority parameters of the operation. To set the parameters just rotate on top the icon and press, when the icon from transparent becomes, you can set it by rotating to increase or decrease, then click to set.

Page 1 of 2

Operation mode:
OFF: boiler off :
▥ :heating only
🚰 : ACS only*
🌡 : heating +DHW*
❄🚰 : Cooling + DHW*
❄ : Cooling only

*: only if OT1

▥ : setting climate curve values for heating request. See graphs below to set min and MAX temperatures

❮ Back, back to previous menu

🚰 : sanitary temperature
You Can set the temperature of the sanitary water in cadaia when there is demand for domestic hot water (DHW), or read the current temperature coming from the boiler

OT: enable bus connection with boiler
OT0: Bus Link Disabled
TO1: Bus connection enabled

	MAX	54	55
MIN	60	OT 1	
DIFFERENTIAL			
ON		**OFF**	
-0.1		0.1	

DIFFERENTIAL
These are the deadband values at which the heating/cooling request is activated ON, or OFF is deactivated.
ON: The command turns on when the current temperature is – X.X from the Set Set.
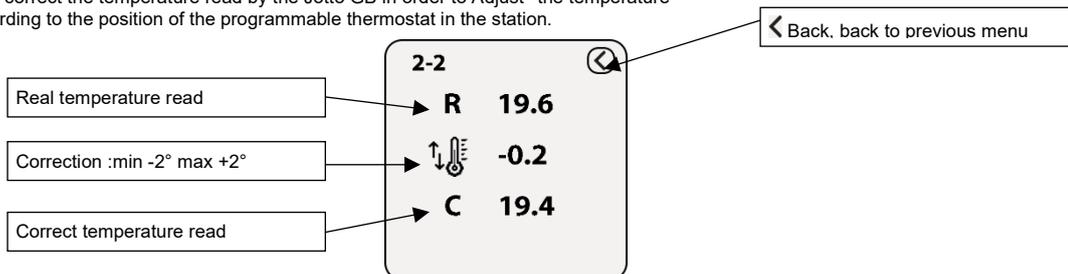OFF: The command turns off when the current temperature is +X.X from the set set.

In assenza di sonda esterna o geolocalizzazione

With geolocalized external probe

Pag. 2 of 2 It is possible to correct the temperature read by the Jotto GB in order to Adjust the temperature displayed according to the position of the programmable thermostat in the station.

❮ Back, back to previous menu

Real temperature read → **R** 19.6

Correction :min -2° max +2° → 🌡 -0.2

Correct temperature read → **C** 19.4

2-2

N.B: the programmable thermostat analyzes a series of data such as the position where it is installed, the type of wall on which it is fixed and any drafts present, in order to display the real temperature, to do this it needs about a couple of hours after turning it on. to be able to calculate the temperature as accurately as possible.

Menu Air: 🌱

From the Air menu, You can configure Methods of intervention of the paired WIFI relay for a possible control for Controlled Mechanical Ventilation (VMC) systems o punctual heat exchangers, based on to the reading of the Quality sensor Air present on the thermostat.
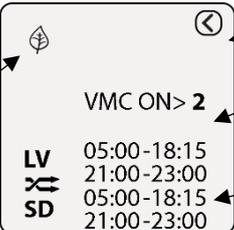
Operation mode:
- **OFF** : AQ relay is off, the ambient air quality is only displayed.
- 🌱 : the AQ relay works according to the value read by the air quality sensor and the VMC ON value.
- ⤬ : the AQ relay works independently of the value of the air quality, according to the set chrono.
- 🌱⤬ : the AQ relay works according to the value of the air quality sensor according to the value of VMC ON and the chrono set.

Display:
```
🌱                    ⊙
        VMC ON> 2
LV   05:00-18:15
⤬    21:00-23:00
SD   05:00-18:15
     21:00-23:00
```

⟨ back Back to previous menu

VMC ON> : indicates the value of AQ (air quality) above which the WIFI relay of the VMC machine or exchanger is controlled.

VMC machine schedule
They indicate the DA-A time slots, to which to operate the WIFI relay combined with the VMC machine or exchanger. LV=Monday-Fridayì; SD=Saturday-Sunday.

The IAQ index is a very important value in the way of living comfort at home, as it indicates the quality of the air present in your home.
The Jotto thermostat analyzes the quality of the air through a sensor that detects a series of components present in the air we breathe, and warns us if we need to exchange the air in the house.
The sensor needs time after turning on the thermostat, up to 1 day, to calibrate and be precise, please turn on the Jotto in a place as healthy as possible and in any case in a ventilated position.
The table below shows the values read according to the HUBA standard.

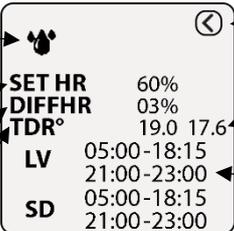| IAQ value	Reference level	Information on the quality air	TVOC (mg/m³) [1]	Air Quality
Up to 1.9	Level 1	Clean and hygienic air (reference value)	< 0.3	Very good
2.0 to 2.9	Level 2	Good air quality (but do not exceed this threshold level)	0.3 to 1.0	Good
3.0 to 3.9	Levellor 3	Notable comfort problems (not recommended for exposure greater than 12 months)	1.0 to 3.0	Average
4.0 to 4.9	Levellor 4	Significant comfort problems (not recommended for exposure of one month only)	3.0 to 10.0	Poor
From 5.0 and above	Level 5	Unacceptable conditions (exposure is not recommended)	> 10.0	Bad

Humidity Menu: 💧

Menu Humidity, it is possible to configure the intervention modes of the combined WIFI relay for a possible command for DeudimIfication, based on the sensor reading of humidity present on the thermostat.

Operation mode:
- **OFF** : HR relay is Off, the humidity present in the environment is only displayed.
- 💧 : the HR Relay works according to the value read by the humidity Sensor and according to the values set below.

SETHR: indicates the desired humidity value.

DIFF HR: sets the differential above which the dehumidification is reactivated, turns off at SET HR turns on again at SETHR+DIFFHR.

TDR°: Dew Temperature: indicates the temperature value below which the system goes into humidity alarm, by turning off the zone valve outputs, only the dehumidification output remains on (if active).
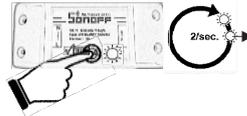N.B. if TDR value is set to OFF the alarm is disabled.

Display:
```
💧                    ⊙
SET HR    60%
DIFFHR    03%
TDR°      19.0 17.6
LV   05:00-18:15
     21:00-23:00
SD   05:00-18:15
     21:00-23:00
```

⟨ back Returns to the previous menu.

Indicates the calculated dew temperature.

Dehumidification Machine schedule
They indicate the DA-A time slots, to which to operate the WIFI relay combined with the Tell medifier Machine. LV=Monday-Friday; SD=Saturday-Sunday.

Add relay menu

For each Jotto Gb it is possible to combine a WIFI relay with seconif you want to control a VMC machine or a dehumidifier according to the parameters set in the Air and Humidity menus. For its correct pairing, follow the following configuration procedure to the WiFi network to which the Jotto GB is also connected.

1- First, connect the relay as shown below:

Neuter

230Vac

Phase

Connect to:
Load at 230Vac ,,
maximum supported current 10A at 230Vac

Press and hold for the button for 10 seconds and then release, the led will flash 1 time per second

P.S. the relay is modified according to the specifications of Jotto srl, use only the relay of the Jotto expansion package. Jotto declines all responsibility for the use of a relay other than that contained in the

2- Pmake your smartphone, tablet or PC and follow the instructions below:

Go to WIFI and choose the network "Jotto_RL_xxxxxxxx", exit and open the browser and type the address "192.168.4.1"
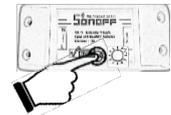
The following Relay Configuration page will open, click on "Configure WIFI"

The page will open with the WIFI networks detected by the relay, choose the WIFI network to which the Jotto GB is also connected.
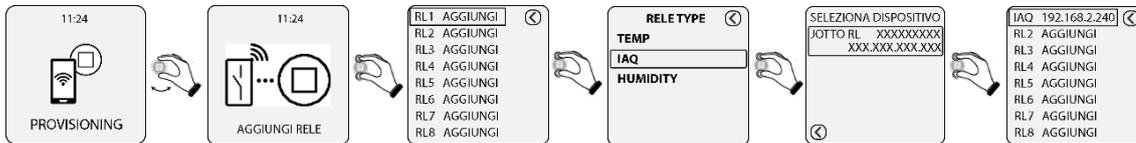
Enter the Password of the selected WIFI network, if the network is without password, press "Connect"

If everything has been done correctly, the LED on the WIFI relay will stop blinking and become solid.

Now it will be possible to match the relay according to the sensor you want to control, Temperatures, humidity, air quality

To pair a relay with the Jotto GB according to the sensor you want to control, take the relay, previously connected to the WIFI network.

Click on the relay button, the LED will start flashingquickly, the relay will be in PAIRING

From the Menu setting, choose the WIFI menu

Rotate to choose "Add Relay"

Choose the number of the relay you want to add and click.
If a relay already exists, you can choose whether to: overwrite or delete it

Choose the type of sensor you want to control with the relay, between temperature, air quality or humidity
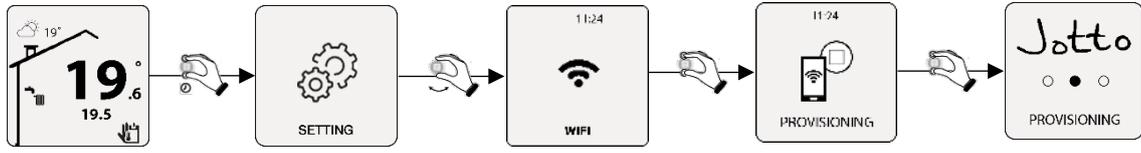
Sand the relay has been paired , it will be visible from the Jotto GB, with its IP address assigned to it by the Router. Select and click.

Once the relay has been configured, it will stop flashing and the operation will be completed.

Use of the Jotto Plus App:

If you want to control the Jotto GB thermostat remotely, first download the "Jotto-Plus" app from the Google play store or the Apple app store. Open the App, first create your account by following the instructionsof the App. Poi start recording the programmable thermostat to your home Wi-Fi network.

P.S. Before doing this, make sure you have the password data of the WiFi network you want to connect to and be sure that this network has an internet connection.
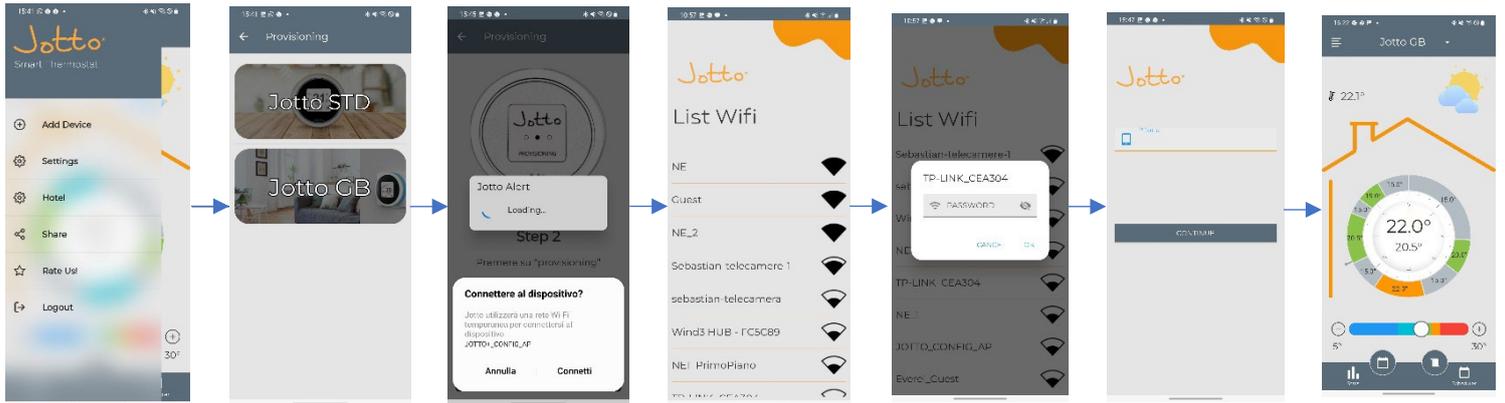

| From the main page press and hold to enter the Setting menu | Select the WIFI menu and enter the menu | | Click Provisioning | This screen will appear on the Programmable Thermostat, | Open the Jotto-PLUS app, Select "Add Device" on the App |

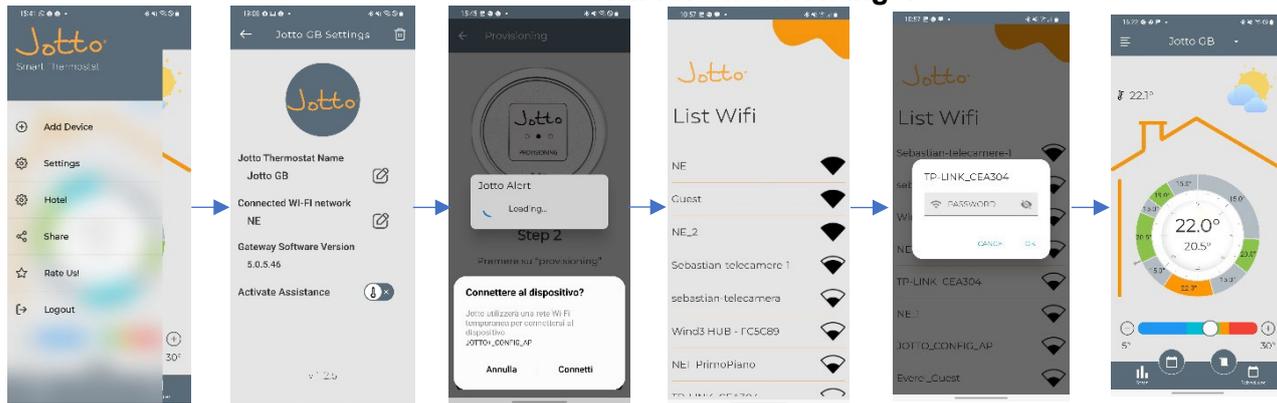| After logging in with your account, select "Add Device" | Select the type of programmable thermostat, "Jotto GB" | Click on "connect" to Connect the app to the programmable thermostat | Select the Wi-Fi network to which you want the chronothermostat to be connected, for better operation check the quality of the Wi-Fi reception | Enter the password, and press "OK", if the WIFI Network is without password, click on "OK" | Once the programmable thermostat is registered on the Cloud, enter the name you want to give to the programmable thermostat | Once the recording is finished, you are ready to use the programmable thermostat even from your smartphone |

WIFI Network Change:

| Select "Setting" on the App. | | Click on "connect" to connect the app to the programmable thermostat | Select the Wi-Fi network to which you want the programmable thermostat to be connected, for better operation check the quality of wifi | Enter the password, and press "OK", if the WIFI Network is without password, click on "OK" | Once you have finished changing the network, you can still use the app. | Once you enter the "setting" page click on the "edit" icon next to the current wifi network . |

Jotto GB Features:

- Dimensions:.......................................109x80x33 WxHxD mm
- Wireless technology:.................Wi-Fi 802.11 b/g/n 2.4GHz
- Transmitting power:..100mW
- Temperature reading range:...........….........……..0°C to 40°C
- Temperatures reading accuracy……………………...+/- 0. 5°C
- Temp Setting Range: Heating....................from 4.5°C to 30°C
  Cooling……..…….from 15.0°C to 40°C
- Temperature increase range……………………….…… 0.5°C
- Range Humidity reading range:......................from 5% to 90%

- Accuracy of LEttura Humidity............................+/- 3%
- Air Quality Efficiency Range (HUBA):……..from 1 to 5
- Air Quality Sensor Life:... ....10 years
- Power supply:....................5Vdc with USB C connector
- Absorption:..2W
- Operating temperature: …………………….....0 - +40°C
- Storage temperature:...................................- 10 - +50°C
- Max. relay current required operation
  generator:...0.5 A (230Vac)