



Net Software

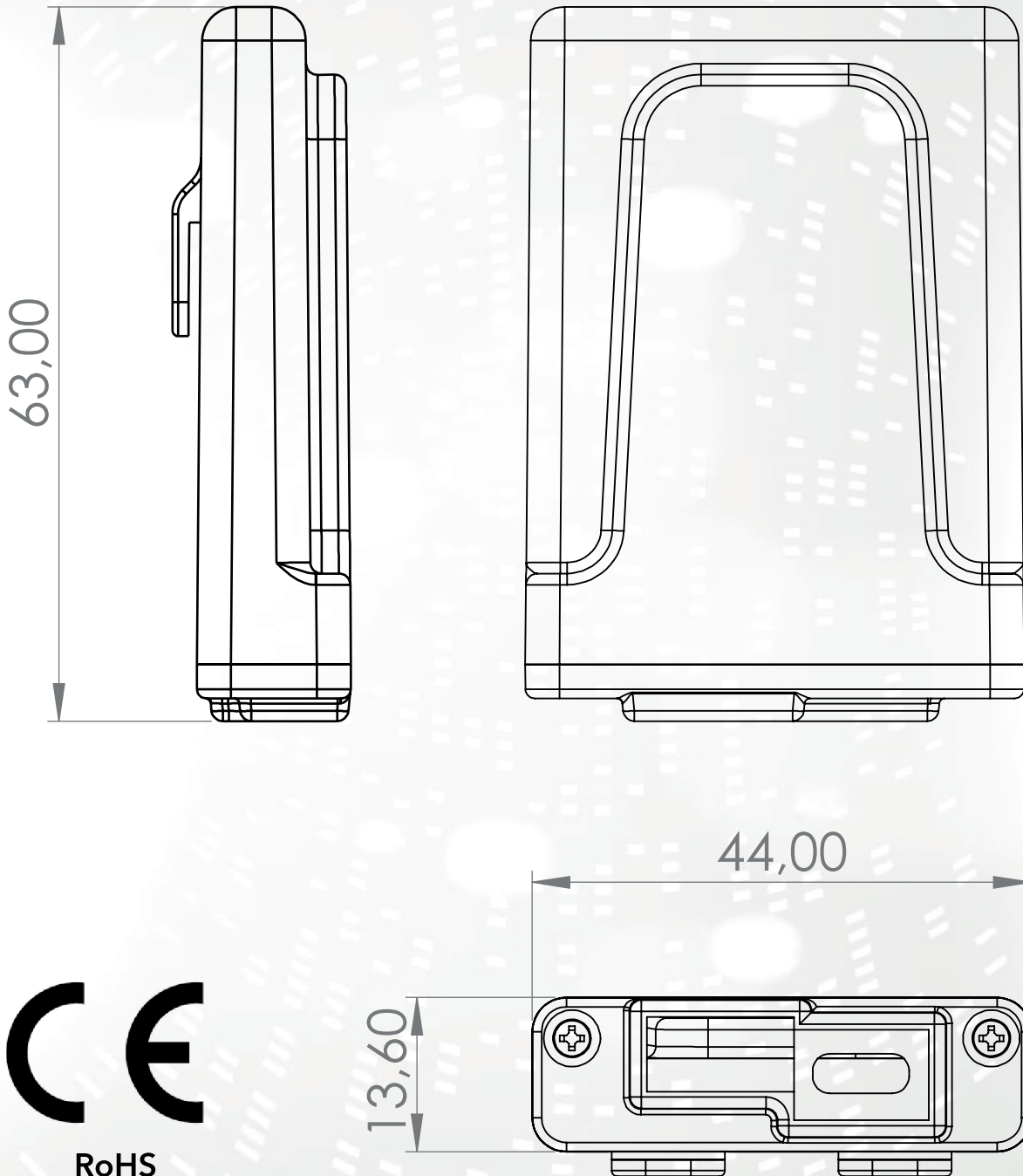


# WINET

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configuration  
user instruction manual

**WINET** - Wi-Fi device for controlling equipment via communication bus.



**CE**  
RoHS

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## 1 - CHARACTERISTICS

WINET is an electronic device equipped with a wi-fi connection designed for the on-site and/or remote control/monitoring of electronic equipment for the various sectors of industrial automation, building automation, horeca and others.

Equipped with a **serial bus**, in its interface variants RS485, RS232, TTL 5V (Full and Half Duplex), TTL 3.3V, it **can be connected to multiple electronic products**.

The extended range of supply voltage combined with the average consumption, in operation, of less than one Watt allows it to be **self-powered directly by the electronics to which it is connected**. The size and shape, compact to adapt to small spaces, is designed for both internal and external use in the designated application.

It comes in a custom plastic container, designed and created specifically for **Net Software**, with an elegant appearance guaranteeing the IP33 protection level.

**The integrated webserver**, capable of containing the entire web application, specific for product control and monitoring, makes it a unique product of its kind, highly customizable and flexible for use combined with any product.

The technology used to create it obtained a **patent for technological innovation in 2020**.






## TECHNICAL FEATURES

<b>Input</b>	
Input voltage	3.3 VDC - 24 VDC
Consumption	
Average consumption	<1WATT
<b>Temperatures</b>	
Supported temperature range	-20 °C ~ 75 °C
<b>Output</b>	
Number of digital outputs	0
Max supported power/output	N.D.
Contact type	N.D.
<b>Entrances</b>	
Number of digital inputs	0
Number of analogue inputs	0
Input type	N.D.
<b>Communication</b>	
Serial port	RS485* - RS232* - TTL*
Communication protocols	MODBUS:CUSTOM*
<b>Connectivity</b>	
Connectivity type	WI-FI
Working frequency	2.4 GHZ (2412 MHZ ~2484 MHZ)
AP (Access Point) Mode	YES
Station mode	YES
WiFi protocols	802.11 B/G/N
Signal strength	-20.5 DB
Safety	WPA/WPA2
Encryption	WEP/TKIP/AES
<b>Software services</b>	
Web Server	YES
UDP Server	YES
DHCP Server	YES
SNTP Client	YES
DNS Client	YES
Accessible from the Cloud	YES
Online firmware update	YES

*\*depending on device version.*

## STEPS NECESSARY FOR CORRECT INSTALLATION

**Step1** - Download the WiNET+ App  from the AppStore  or PlayStore stores 

**Step2** - Launch the App

**Step3** - Create your user account

**Step4** - Scan the QR Code on the device label.

*Attention: procedure to be carried out following installation of the device for the first setup or every time the router password or the wifi network name is changed to which it was previously connected.*

**Step5** - Wait for the device to be identified.

If necessary, update the list by dragging it down with your finger.  
*The connection between device and smartphone/tablet takes approximately 15/20 seconds.*

**Step6** - Connect your device to your home or office Wi-Fi.

**Step7** - Register your device in your Cloud account (see point 7A/7B).

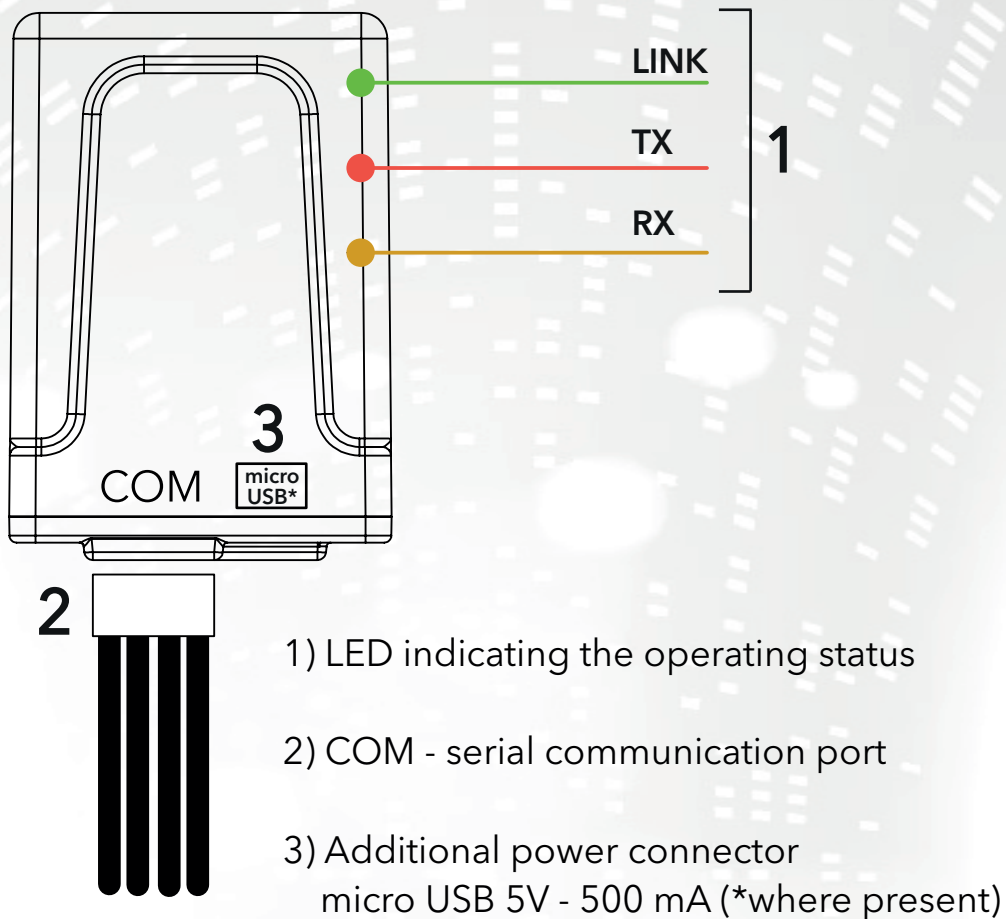
### IMPORTANT

Assign all the permissions requested to the app upon first launch, including geolocation, otherwise malfunctions may occur.

Check that the green LED is on, if not, check the connection to the product to which the device is connected.

Check that the device does not overheat, otherwise contact your dealer.

## 2 - CONNECTION



## 3 - LED INDICATORS

The Wi-Fi device is equipped with **3 LEDs** that indicate its operation:

**LINK (Green LED)** Indicates the operating status of the **WiNET** device. At startup the LED is lit and remains in that state until the connection to the cloud occurs correctly.

Once the connection has been made, the LED turns off and remains in the off state until the connection is active. The LED off status indicates that the device can be managed remotely and combined with your WiNET account.

During the download of a firmware update for **WiNET** device, the LED flashes at intervals of 500 ms. In this phase the TX and RX LEDs are temporarily blocked to give priority to the download of the new firmware.

**TX (Red LED)** Indicates a data transmission (data reading or data modification request command) towards the target board to which the **WiNET** device is connected.

**RX (yellow LED)** Indicates when a data transmission, coming from the target card to which the WiNET device is connected, is received by the **WiNET** device.

## 4 - INSTALLATION

Connect the wiring to the electronic board or serial port of the product. The Wi-Fi device is powered directly by the electronic board or product to which it is connected.

**ATTENTION: CONNECT THE WI-FI DEVICE TO THE NON-POWERED PRODUCT (disconnected from the electrical line).**

**ATTENTION: THE DEVICE IS ONLY COMPATIBLE WITH 2.4 GHz WI-FI NETWORKS.**

## 5 - USER ACCOUNT CREATION



### IMPORTANT

Assign all the permissions requested to the app upon first launch, including geolocation, otherwise malfunctions may occur.

Check that the green LED is on, if not, check the connection to the product to which the device is connected.

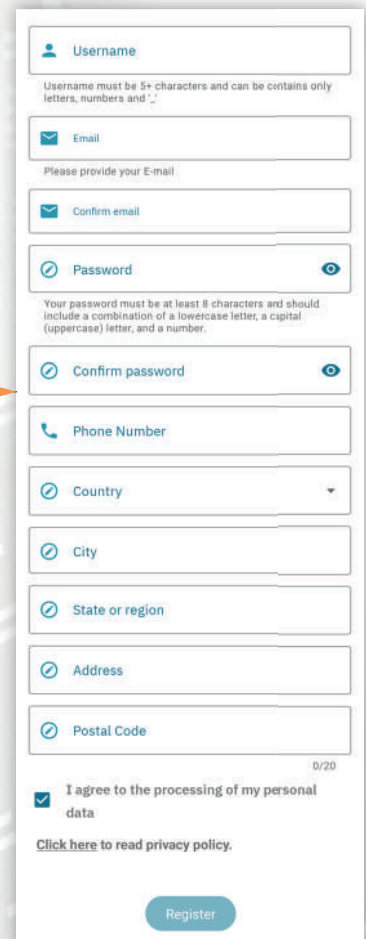
Check that the device does not overheat, otherwise contact your dealer.

Download the app  for iOS  or Android  and assign all permissions, including geolocation.

### Creation and registration of accounts in the Cloud

If you have not already created an account previously, you can create one directly in the app, from the initial login screen by clicking the relevant link, as in the image below.

If you are not already registered [click here](#) to register or to recover your password.



The registration form contains the following fields and elements:

- Username:** A text input field with a note: "Username must be 5+ characters and can be contains only letters, numbers and '.'".
- Email:** A text input field with a note: "Please provide your E-mail".
- Confirm email:** A text input field for email verification.
- Password:** A text input field with a note: "Your password must be at least 8 characters and should include a combination of a lowercase letter, a capital (uppercase) letter, and a number." and an eye icon to toggle visibility.
- Confirm password:** A text input field for password verification with an eye icon.
- Phone Number:** A text input field.
- Country:** A dropdown menu.
- City:** A text input field.
- State or region:** A text input field.
- Address:** A text input field.
- Postal Code:** A text input field.
- Consent:** A checked checkbox with the text "I agree to the processing of my personal data".
- Privacy Policy:** A link "Click here to read privacy policy."
- Register:** A blue button at the bottom right.

Enter all the data in the spaces on the new account registration page and flag the check for consent to the processing of personal data. Once all data has been entered, click on the "Register" button.

If there are no errors in the data entered, the cloud system will send an email with the link to activate the newly created account. Open the program that manages your email and the message received to click the "Activate" link. Activating the account, via the link in the email, will allow full access to the WiNET+ app.

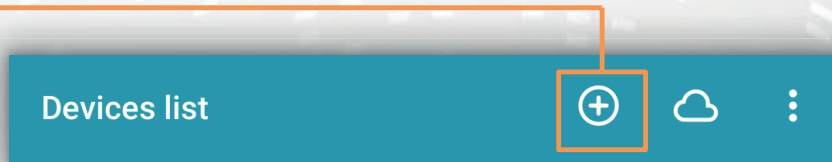


## 6 - FIRST TIME DEVICE SETUP

**ATTENTION:** Turn off the mobile data connection on your phone and turn on the phone's wifi

### Connection via QR CODE using the WiNET+ App

From the "**Device List**" screen (refresh the list if necessary by dragging down to reload the full list) click on the "ADD DEVICE" button.



A new screen will show the QR Code symbol. By clicking the words "SCAN QR CODE" you will be able to access your camera with which, **by framing the QR Code shown on the label of the Wi-Fi device**, the app will connect the phone to the device Wi-Fi automatically.



Once the connection between the phone and the Wi-Fi device is completed, the App will open the main screen for managing the product. **The connection between device and smartphone/tablet takes approximately 15/20 seconds.** If the connection fails, try again after a few moments.

**Wait for the app to connect and display the main management screen of your product!**

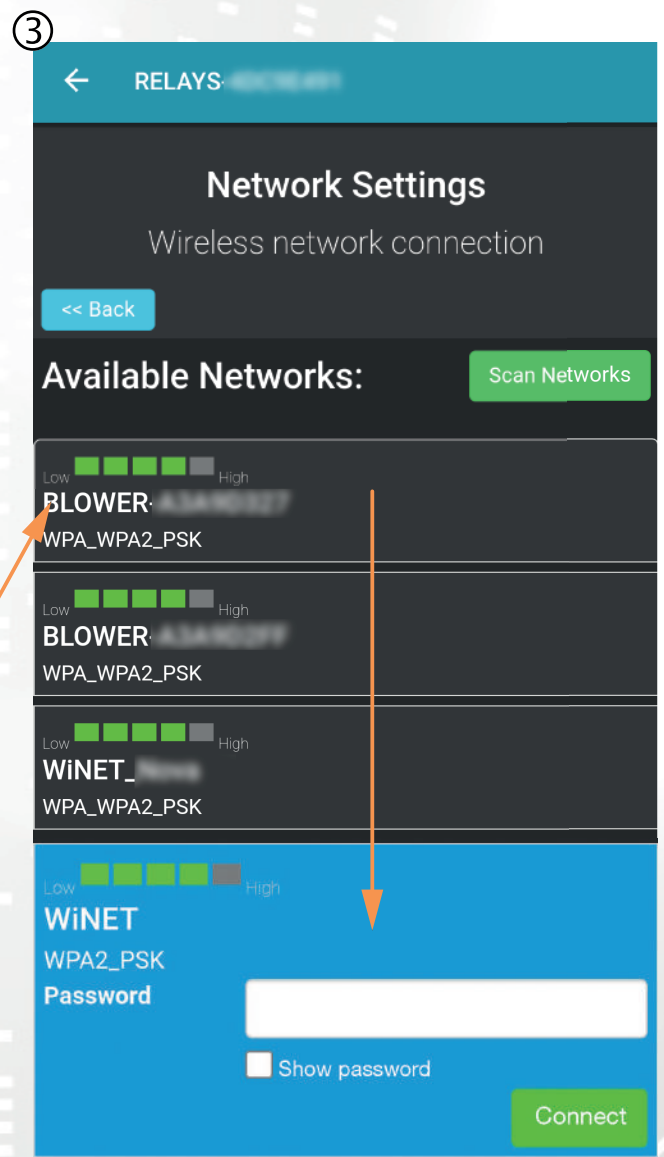
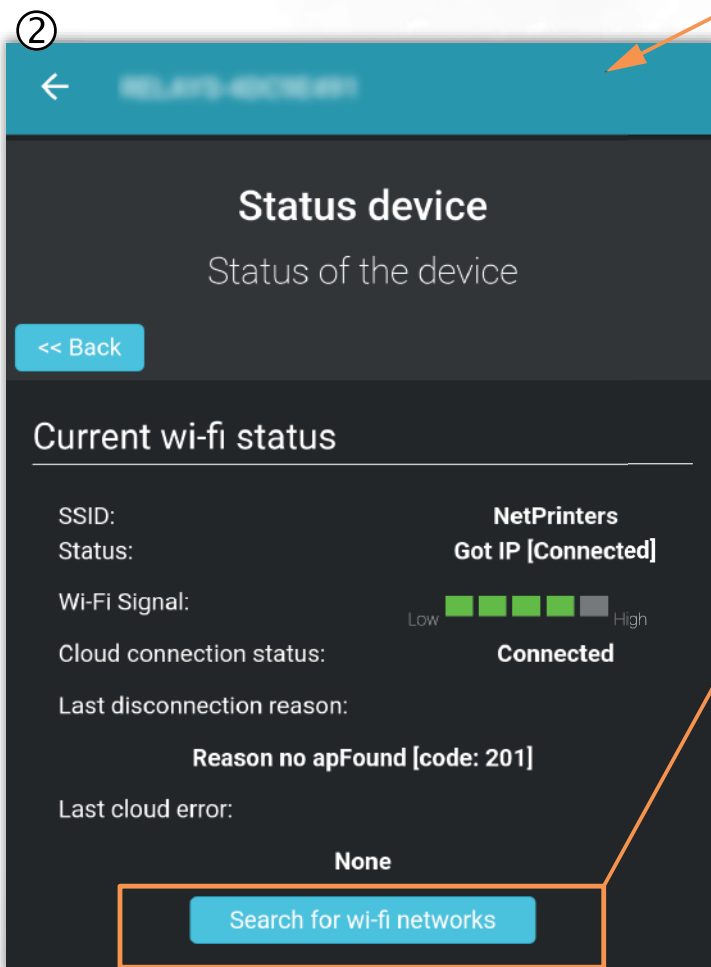
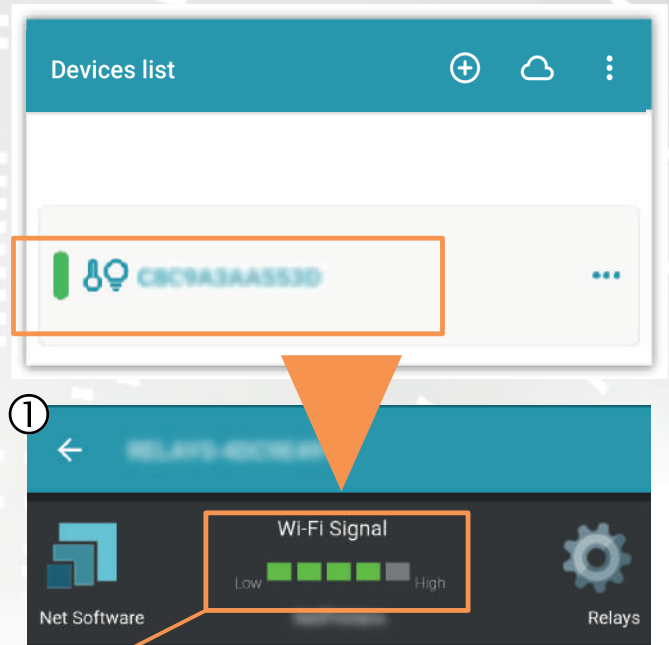
Then connect the device to your home or office wifi network.



## 7 - CONFIGURING THE INTERNET CONNECTION

Once the previous point has been completed and after having correctly connected the smartphone / tablet / computer to the Wi-Fi device, open the **WiNET+ App**

In the list of devices, click on the desired device, then click on the **wi-fi signal icon** and then on Search for **wi-fi networks**. Choose the desired network and proceed by entering the key associated with the chosen network. Finally, press the **"Connect"** button.



Images 1, 2 and 3 are purely indicative and, although they correctly represent the data and contents, they may not visually correspond to those present in the device in use.

## A) Registering a Wi-Fi device in the cloud via WINET+ app

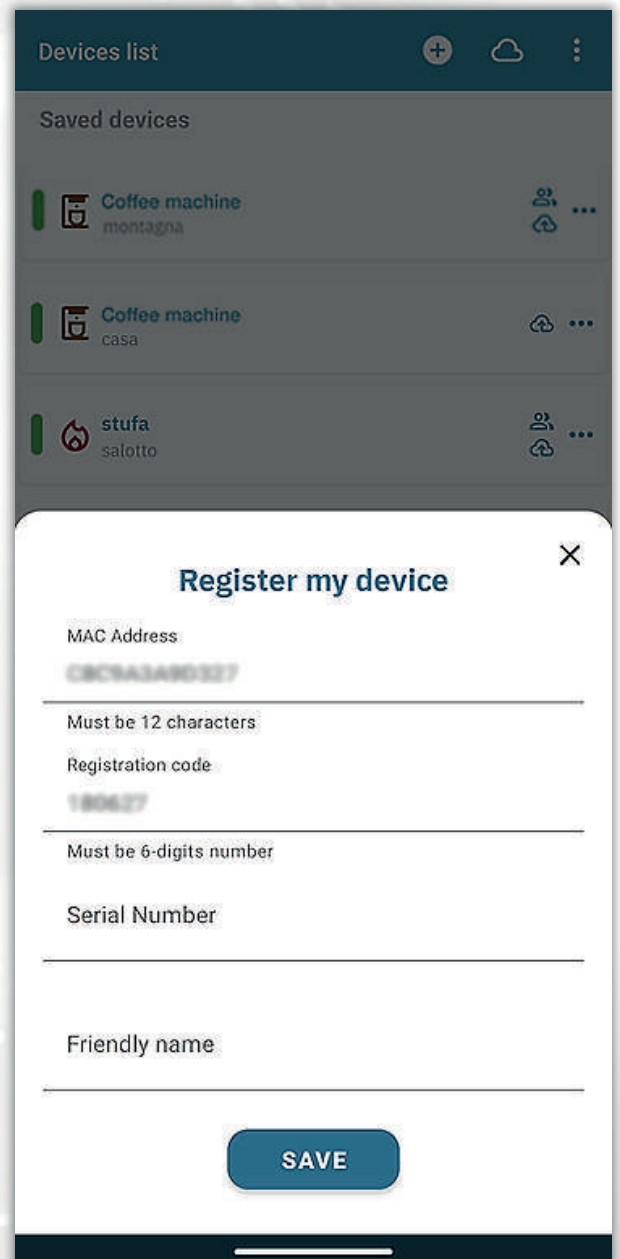
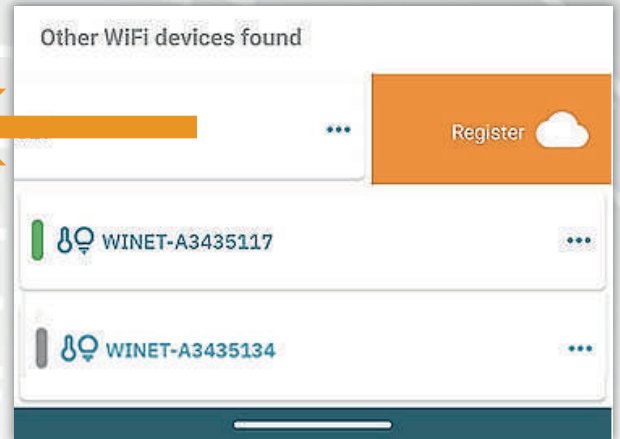
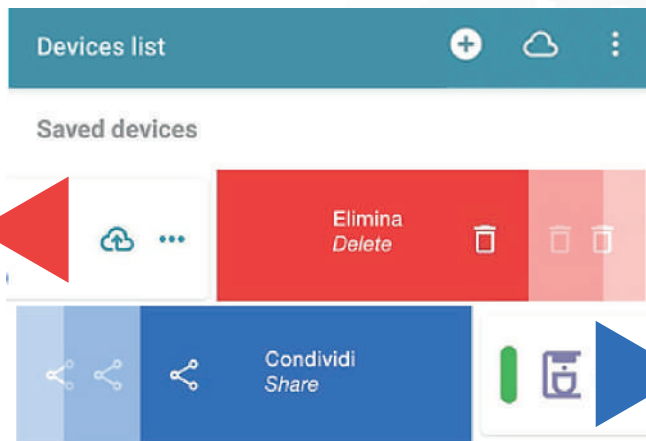
In the list of unregistered devices ("Other WiFi devices found"), drag any of them to the left to access the registration functions in the app (the word "Register" appears on an orange background).

In the screen that appears, the parameters relating to the device to be added, specifically: MAC Address and registration code (found on the device label), will be entered automatically.

Fill in the remaining fields to proceed with registering the device in the Cloud (for example: serial number: 123456 and friendly name: "My device").

To share or delete the device thus registered, please refer to our website, specifically to the page:

**[www.net-software.eu/winet-plus-features](http://www.net-software.eu/winet-plus-features)**

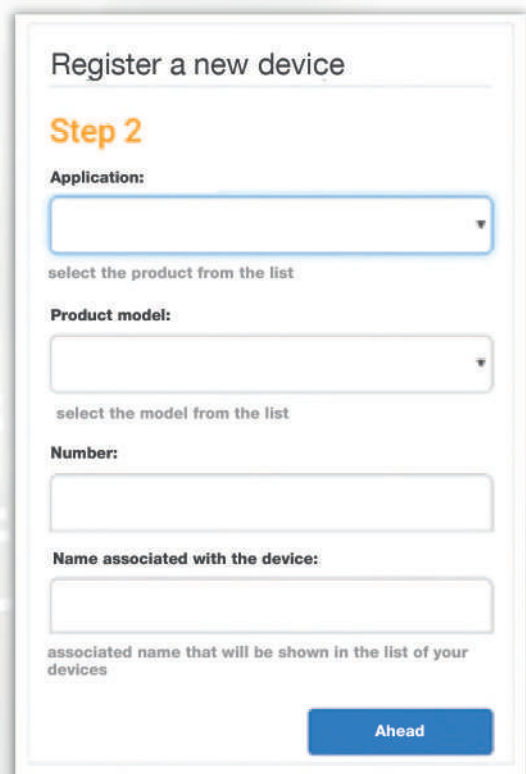


## B) Registering a Wi-Fi device in the cloud via browser

Registering a Wi-Fi device is allowed only after logging in to the cloud system, using your credentials. The web page proposed by the cloud system, immediately after access, contains the list of your registered Wi-Fi devices (empty list if no devices has been previously registered) and a button that allows the registration of a new device.

Click on the "Register a new device" button. Enter the required data shown on the label of the Wi-Fi device. Click on the "Next" button.

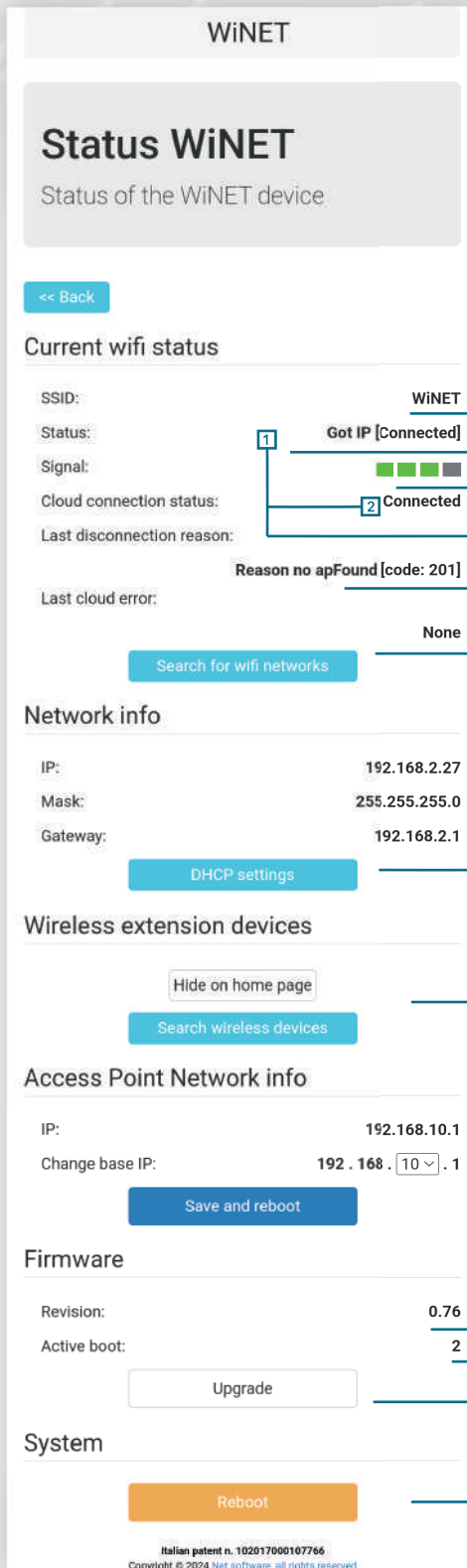
Enter the serial number of the stove to which the Wi-Fi module is connected. No check is performed on the verification of the serial number, but it could be useful in case of remote assistance intervention. In the name field, enter a name of your choice to assign to the product connected online.





## 8 - CONNECTION STATUS OF THE WI-FI DEVICE

**WiNET+** shows, when you are connected to the Wi-Fi device, the device status page, which looks like this:



### ERROR CODES

- 201** - No wi-fi coverage/too weak/router off.
- 202** - Wrong password entered to connect to the router.
- 204** } Router association timeout: turn the router off and on again.
- 8** }

Wi-Fi network the device is connected to.

Connection status of the device to the router.  
Signal strength received from the router to which the device is connected.

If **1** is connected but **2** is not connected, check the Firewall settings that allow outgoing connections on TCP port 1893 and 8888

Description of any last cause or error of disconnection from the router

Description of any last cause or error of disconnection from the cloud

Network parameters used by the module obtained from the router (DHCP) or set manually (static IP).

Commands for pairing TSense wireless device (refer to TSense manual)

Firmware version installed on the Wi-Fi device.

Active partition of the firmware running on the Wi-Fi device.

Start the online firmware update.  
The installed version is not checked, but it downloads the firmware and reboots in the other partition.

Restart your Wi-Fi device.