

Nettuno WiFi Module

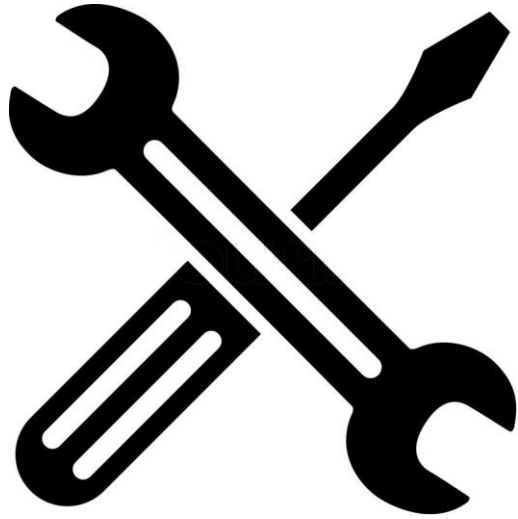


End user reference manual (EN)

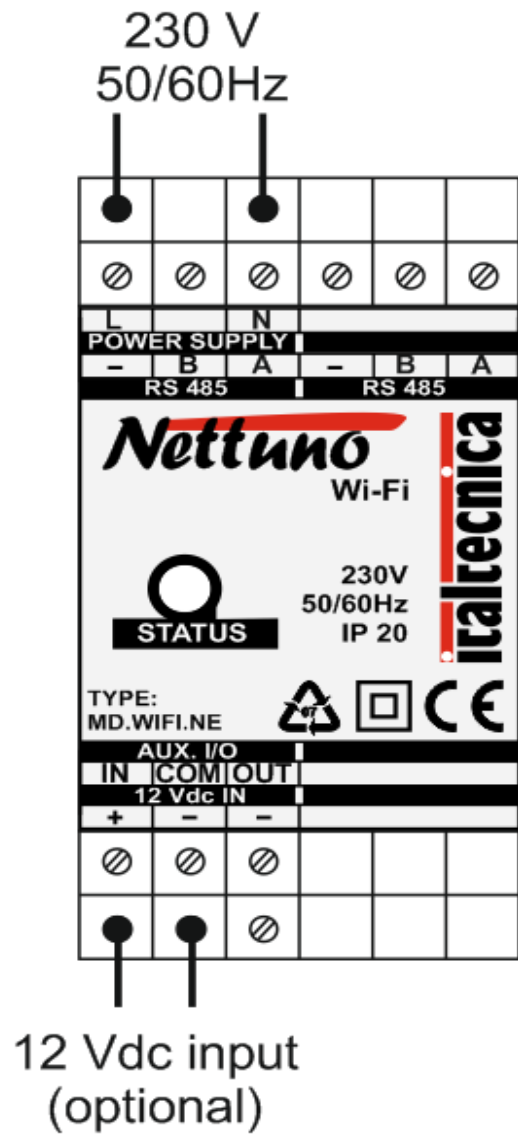
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- Section 2: cloud service for remote control
- Section 3: service center supervision
- Section 4: inverter remote management
- Section 5: E-mail message activation

Section 1



Setup and initial configuration

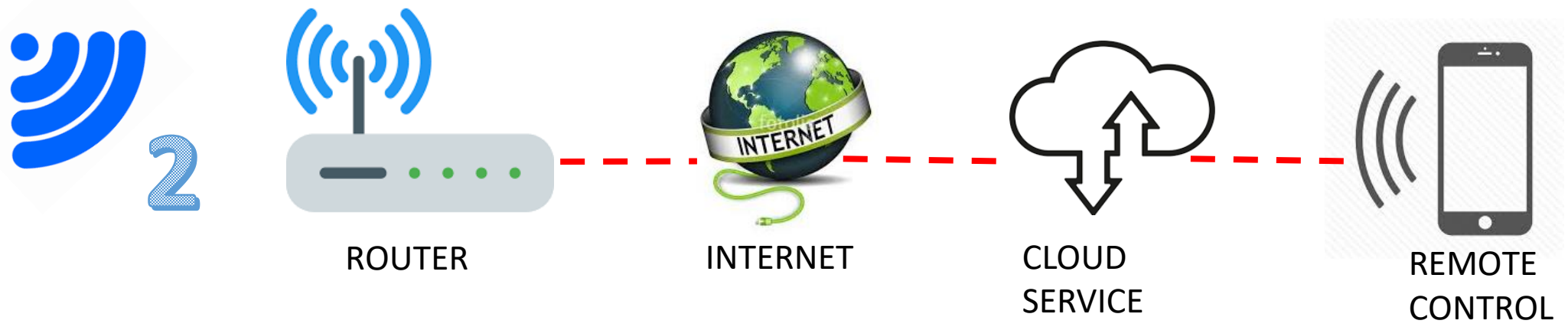


Install the Wi-Fi module in proximity to the Nettuno device, following the instruction manual, and switch on the inverter.

The WiFi Device can simultaneously manage 2 WiFi nets.



The **first Wi-Fi network** is **automatically generated by the module** and can be accessed using the **WPA key (password)** printed on the **device label**, or by **scanning the QR code** on the label with the **smartphone camera**. This network must be **used exclusively to configure the second Wi-Fi connection**.



The **second Wi-Fi connection** allows the **module to connect to the router (or hotspot)** and **access the Internet**, enabling **remote control via a cloud service**.

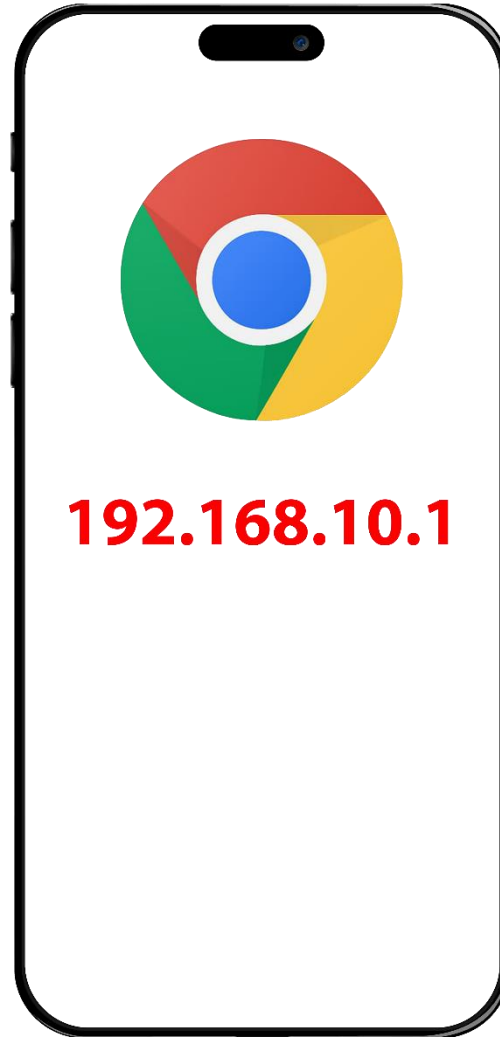


SSID: WINET- 4DE3030D

To configure the module, connect (using a smartphone, tablet, or laptop) to the automatically generated network. The SSID begins with “WiNET”, followed by the last 8 digits of the MAC address. The WPA key is printed on the label on the outside of the package.



Using the device camera, scan the QR code to connect directly to the Wi-Fi network generated by the module.



Once connected to the Wi-Fi module network, open **Google Chrome**. In the **address bar**, enter <http://192.168.10.1> to access the **module management page**. Alternatively, access is available via the **dedicated smartphone application** (see **page 9**).

TEST SALA PROVE



NETTUNO

Inverter Data Flow
Fw.V. 0.45.000

[Stato del sistema]



[SYSTEM OFF-LINE]

[Visualizzazione Dati Pressione]



Pressione Attuale



Set Point Pressione



Set Point 2
Pressione

[Stato I/O]



Enable



SetPoint 2



External Error

[I/O WiFi]



WiFi Input



WiFi Output

[0 - Parametri Pressioni]



[2 - Parametri Multiplo]



[3 - Parametri I/O]



[Stato delle pompe]

[Gestione dispositivo]

Stato

Modifica Parametri Manuale



From the management
page, click on Stato


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Stato rete Wi-Fi

SSID:
Stato:
Segnale:
Ultima causa di disconnessione:

Ital_Uffici
Ip ottenuto [Connesso]



Nessuno

Cambia rete Wi-Fi

Stato connessione al cloud

Stato:

Connesso

Info di sistema

Versione Firmware:
Partizione attiva:

0.34.000
1

Aggiorna firmware

Indirizzi di rete

Assegnato dal DHCP:
IP:
Mask:
Gateway:

Si
192.1.1.43
255.255.255.0
192.1.1.1

Impostazioni DHCP

Pagina precedente



Scansione reti wi-fi



Ital_Guest
OPEN



Ital_Uffici
WPA2_PSK

Password:

[Connect]



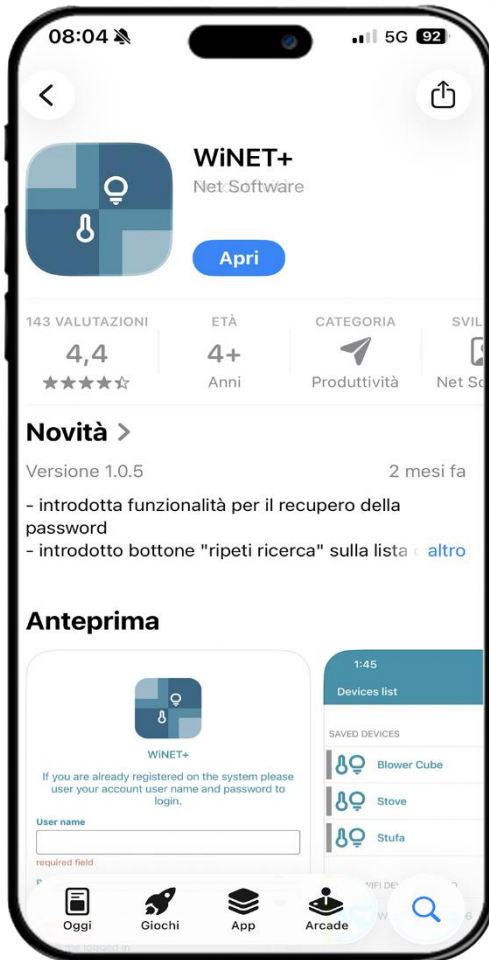
NETGEAR26
WPA2_PSK

Using the «**Change Wi-Fi network**» button, it is possible to **display a list of nearby Wi-Fi networks**.

Select the **network that the module will use to connect to the Internet** and **enter the corresponding WPA key**.

Once the procedure is completed, the **module connects to the selected Wi-Fi network** to access the Internet; the **green LED turns off** to confirm successful connection.

To **remotely control the pump via the Internet**, **registration to the cloud service is required**, as described in the following sections.



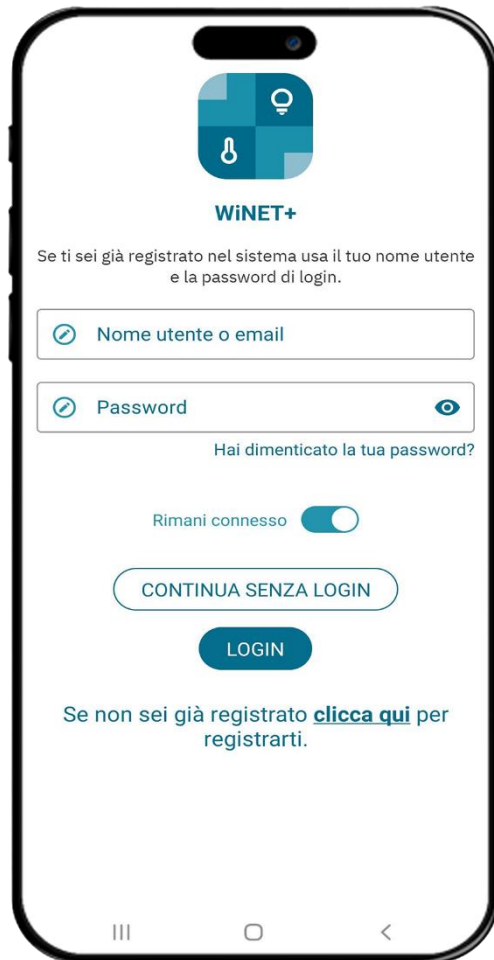
App installation:

Access your smartphone's app store. Search for the **WiNET+** application (Net Software), install the application, and open it once the installation is complete.

Preparation for device configuration:

Disable the mobile data connection on the smartphone, enable the smartphone Wi-Fi connection, and make sure that the Nettuno device is powered on and ready for configuration.

⚠ This step is essential to allow direct communication with the device.



Login access (recommended):

This mode allows you to associate the device with a cloud account, monitor the device remotely, keep devices saved within the account, and use cloud services (e.g. e-mail notifications and access from multiple devices).

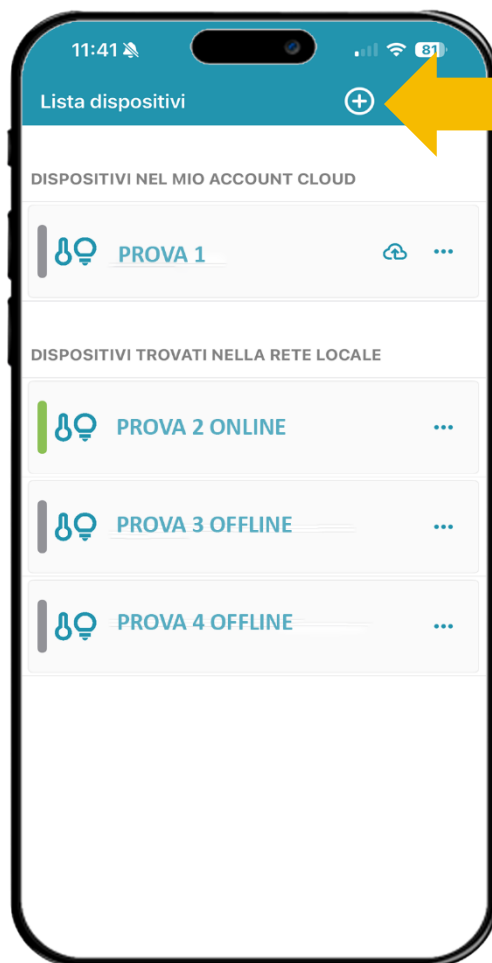
Procedure:

Enter the username or e-mail address, enter the password, and press **LOGIN**.

Note: if this is the first access, registration is required.

Continue without login:

This mode allows you to configure and use the device only on the local network and access basic functions when the smartphone is connected to the same network as the device.



Adding a new device:

In the WiNET+ app, access the device list and select the option **Add new device**.

Follow all the instructions provided, scroll down and press the **Continue** button to start the configuration procedure via QR code.





Using the **device camera**, scan the **QR code** to **connect directly to the Wi-Fi network** generated by the module.



Section 2



Cloud service for remote control

In the browser web open l'URL **www.cloudwinet.it**

Sign In

Once registration is complete, log in using the username and password.

Username

Password

☒ Remember me [Recovery Password](#)

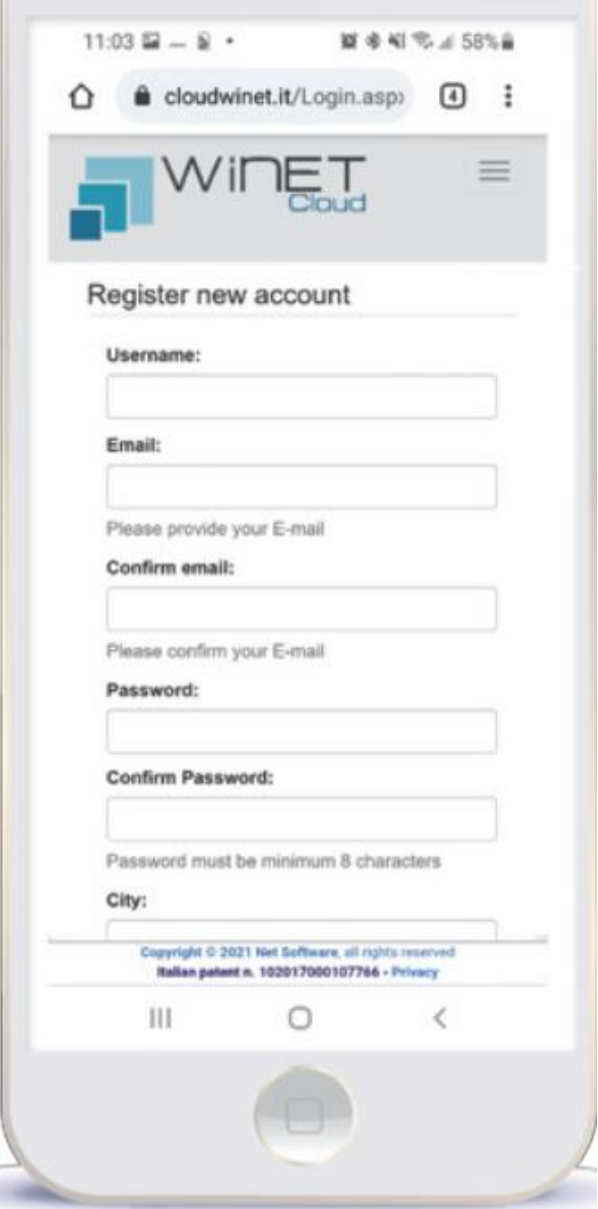
Login

Not registered yet? [Register now your account](#)

If no account is available, select «Register» and follow the registration procedure.
An e-mail will be sent to activate the new account.

Enter **all required data** in the fields on the **new account registration page** and **select the box to consent to the processing of personal data**.
Then select **«Register»** to confirm.

If **no errors are detected in the entered data**, the **cloud system sends an e-mail** containing a **link to activate the newly created account**.
Open the e-mail and select **«Activate»**.
Once the account has been **activated via the link in the e-mail**, it will be possible to **log in to the account's restricted area**.



The image shows a smartphone screen displaying the 'Winet Cloud' registration page. The browser address bar shows 'cloudwinet.it/Login.asp'. The page title is 'Register new account'. The form includes the following fields and instructions:

- Username:** [Text input field]
- Email:** [Text input field]
- Please provide your E-mail
- Confirm email:** [Text input field]
- Please confirm your E-mail
- Password:** [Text input field]
- Confirm Password:** [Text input field]
- Password must be minimum 8 characters
- City:** [Text input field]

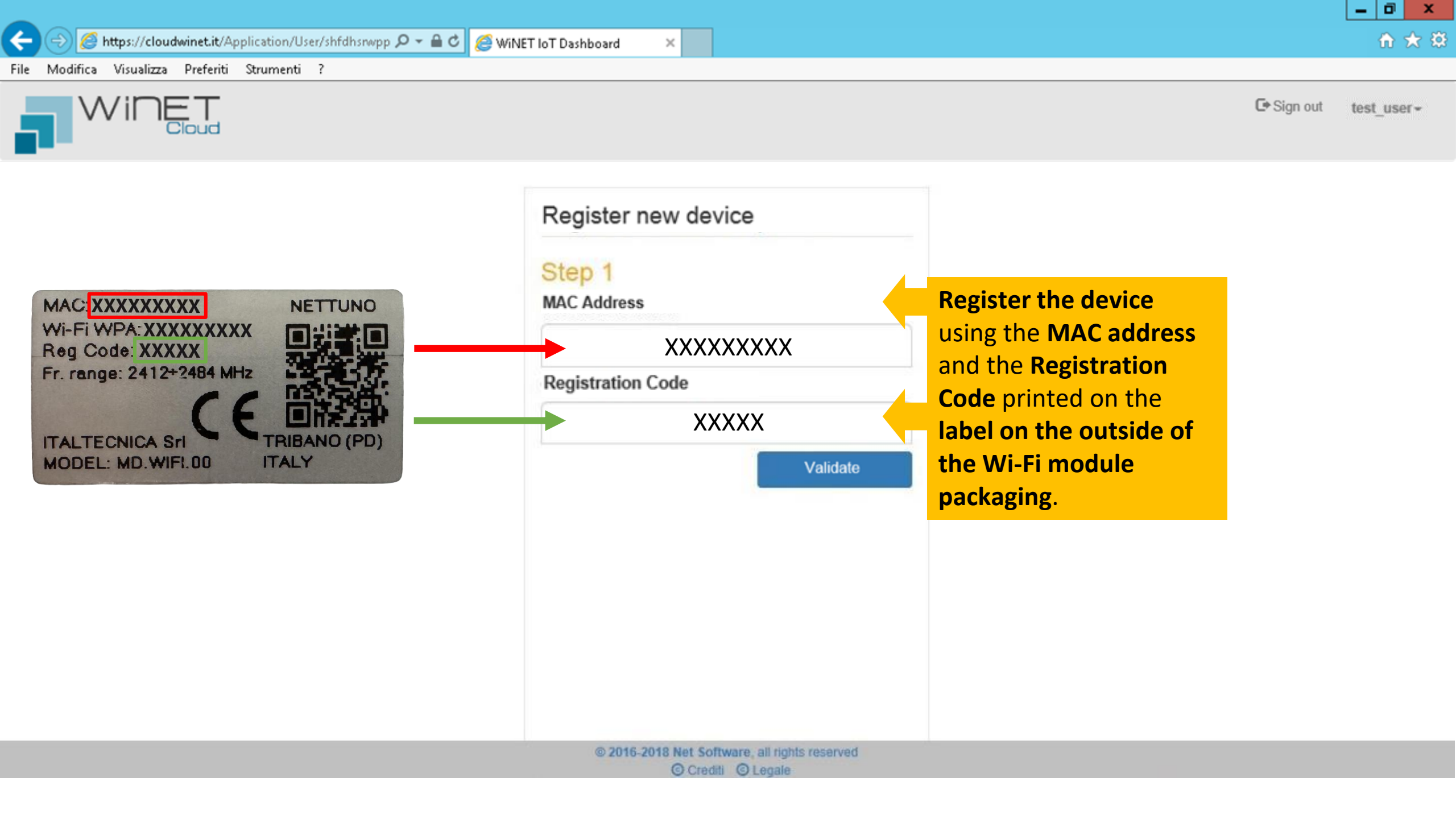
At the bottom, there is a copyright notice: 'Copyright © 2021 Net Software, all rights reserved. Italian patent n. 102017000107766 - Privacy'.

Sorry, no devices found!

Register your device

In the case of a new account, the device list will be empty.

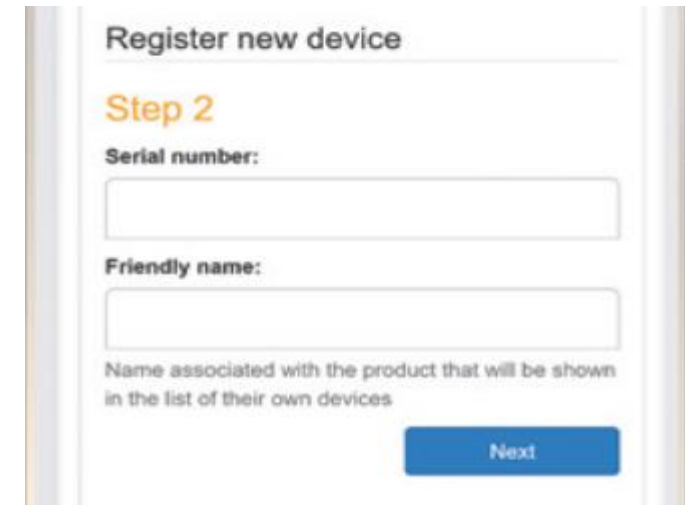
Select «Register your device» to add a new Wi-Fi device to the account.



Enter the **serial number of the device** to which the **Wi-Fi module is connected**.

No automatic verification of the serial number is performed; however, it **may be useful in case remote assistance is required**.

In the **Name** field, enter a **custom name** to assign to the **product connected online**.



The screenshot shows a web form titled "Register new device". Below the title, "Step 2" is displayed in orange. The form contains two input fields: "Serial number:" and "Friendly name:". Below the "Friendly name:" field, there is a small text label: "Name associated with the product that will be shown in the list of their own devices". At the bottom right of the form is a blue button labeled "Next".

Register new device

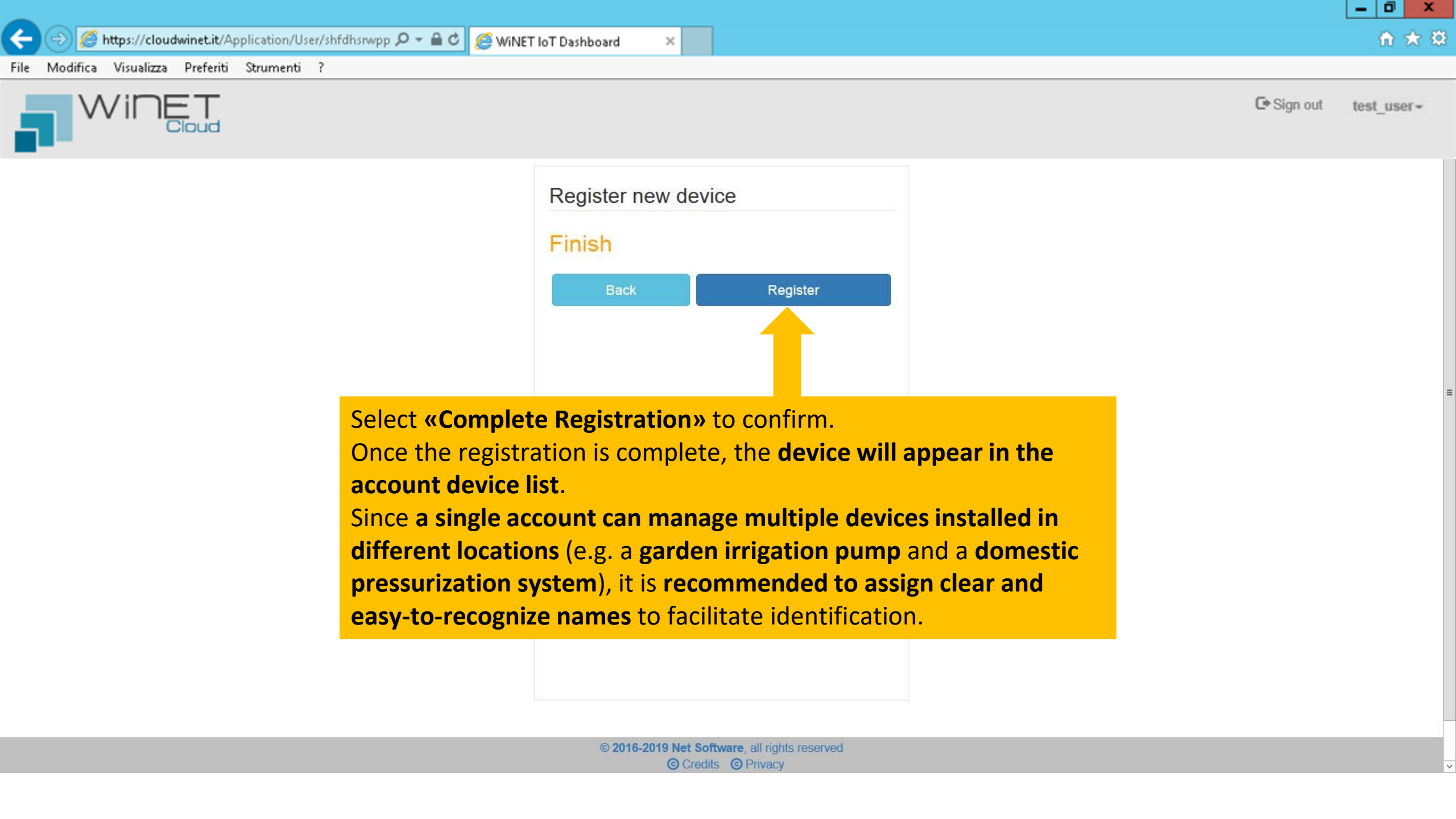
Step 2

Serial number:

Friendly name:

Name associated with the product that will be shown in the list of their own devices

Next



Register new device

Finish

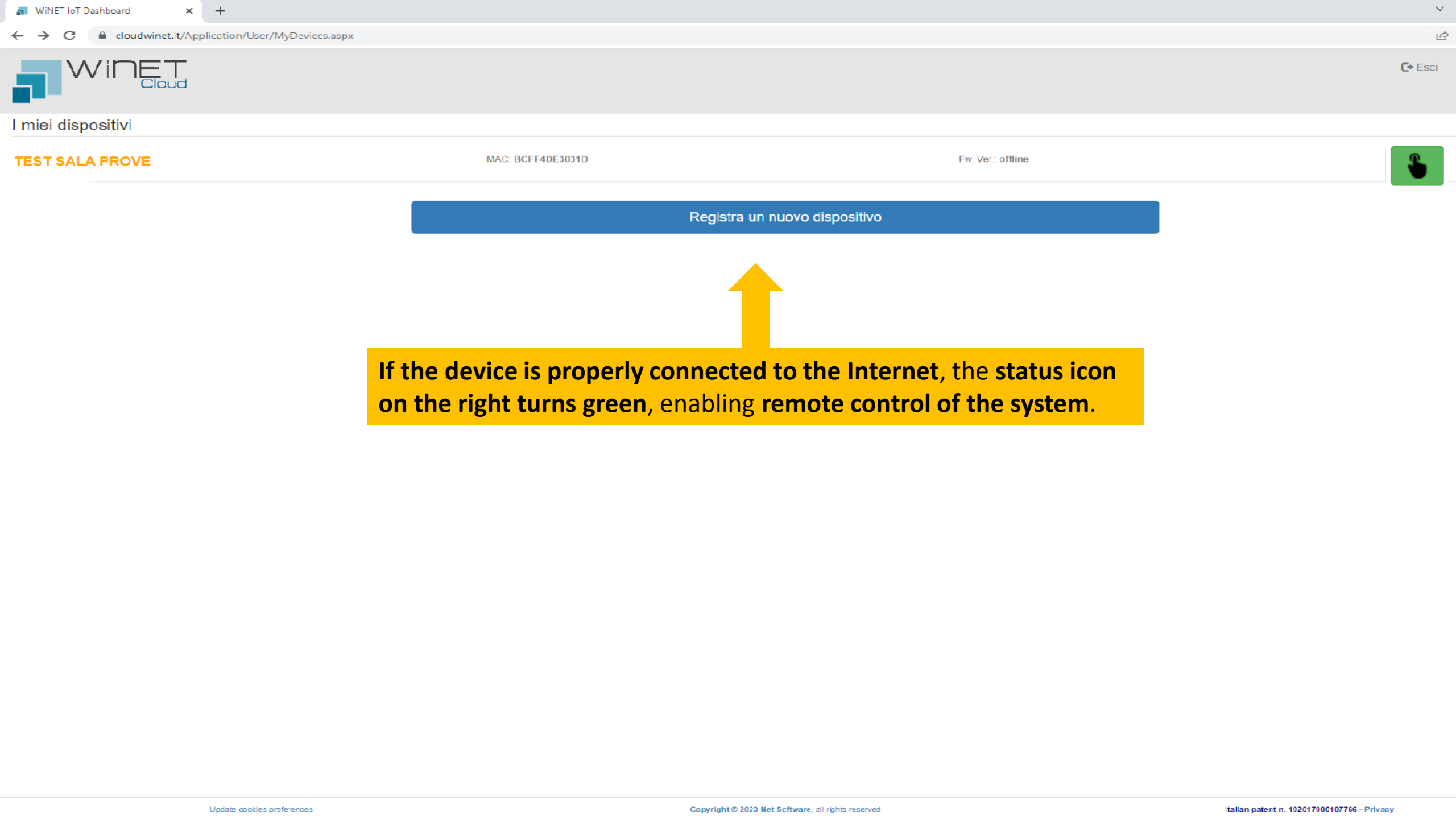
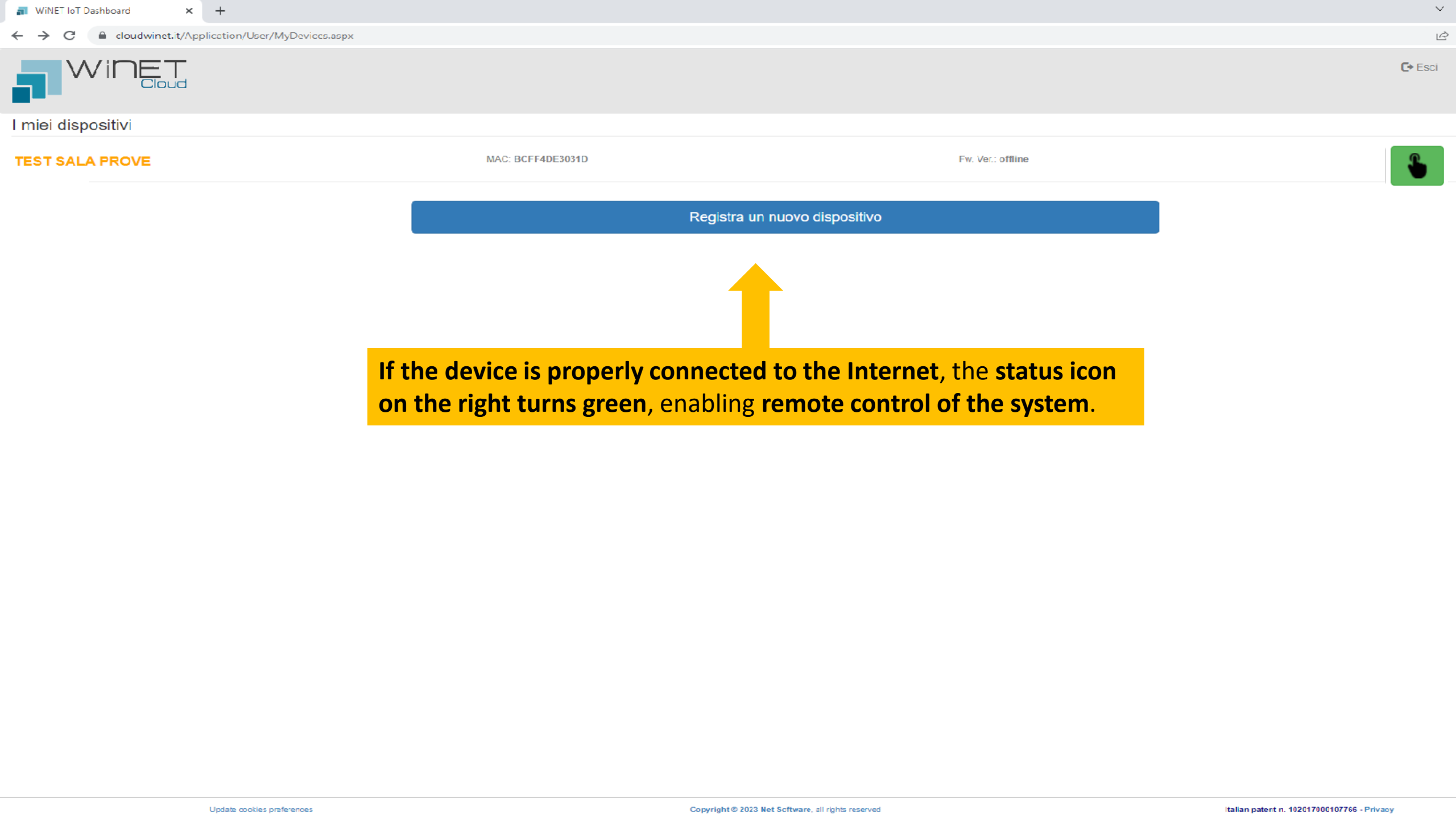
Back

Register

Select «**Complete Registration**» to confirm.

Once the registration is complete, the **device will appear in the account device list.**

Since a **single account can manage multiple devices installed in different locations** (e.g. a **garden irrigation pump** and a **domestic pressurization system**), it is **recommended to assign clear and easy-to-recognize names** to facilitate identification.



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[Stato del sistema]



[SYSTEM OFF-LINE]

[Visualizzazione Dati Pressione]



Pressione Attuale

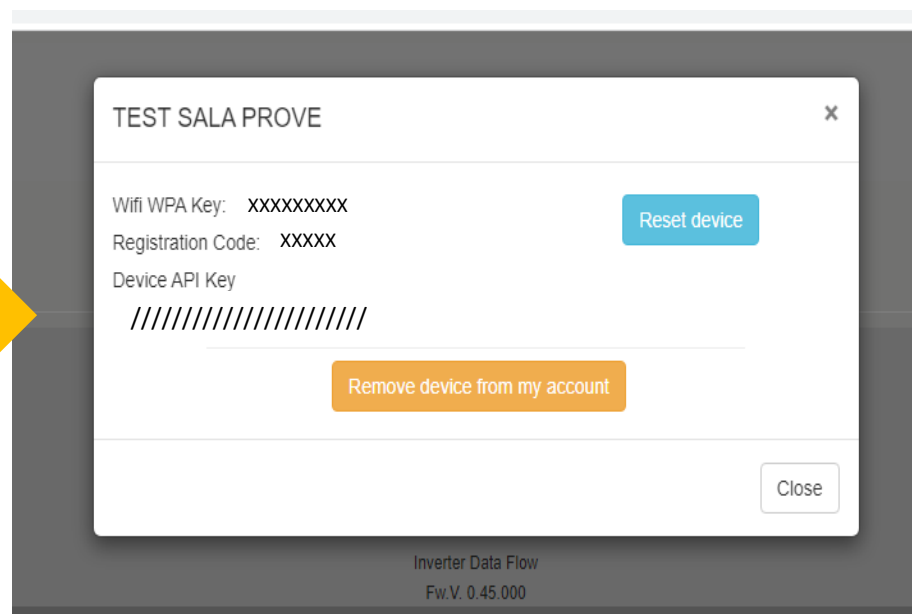
Set Point Pressione

Set Point 2
Pressione

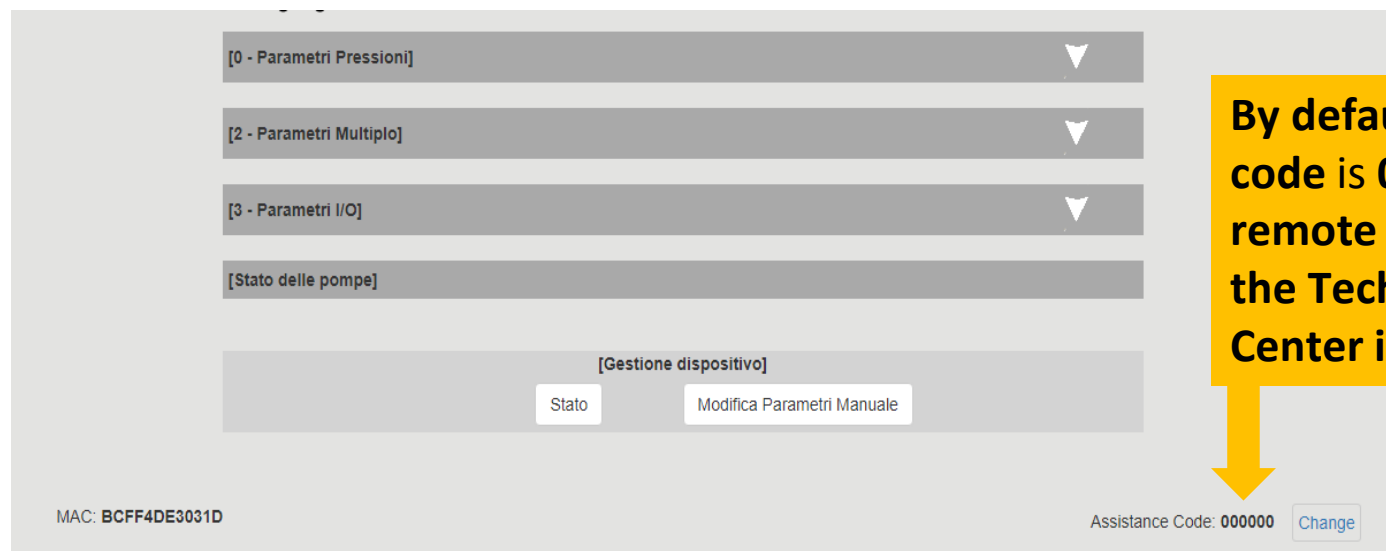
[Stato I/O]

Once the device management page is accessed, additional information can be viewed by selecting the device name at the top of the page.

A **pop-up window** displays the **WPA key** of the **device's local network** and the **registration code** of the **Wi-Fi module**.



A screenshot of a 'TEST SALA PROVE' pop-up window. The window has a title bar with a close button. It contains three labels: 'Wifi WPA Key: XXXXXXXXX', 'Registration Code: XXXXX', and 'Device API Key' followed by a series of slashes. There are three buttons: 'Reset device' (blue), 'Remove device from my account' (orange), and 'Close' (grey). At the bottom, it says 'Inverter Data Flow' and 'Fw.V. 0.45.000'.



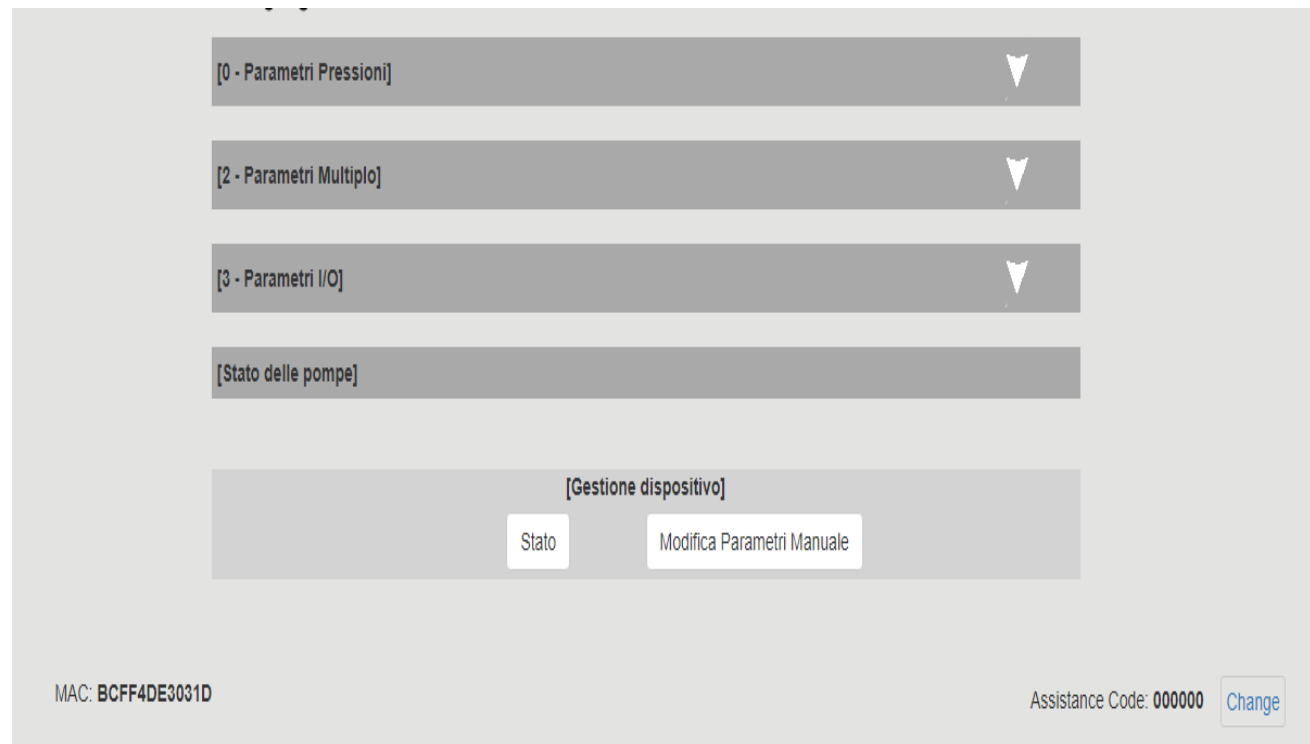
A screenshot of a main settings screen. It features a list of expandable sections: '[0 - Parametri Pressioni]', '[2 - Parametri Multiplo]', '[3 - Parametri I/O]', and '[Stato delle pompe]'. Below these is a '[Gestione dispositivo]' section with 'Stato' and 'Modifica Parametri Manuale' buttons. At the bottom left is 'MAC: BCFF4DE3031D' and at the bottom right is 'Assistance Code: 000000' with a 'Change' button. A yellow arrow points from the 'Assistance Code' to a text box on the right.

By default, the **assistance code** is **000000**; therefore, the **remote assistance service** via the **Technical Assistance Center** is **disabled**.

Section 3

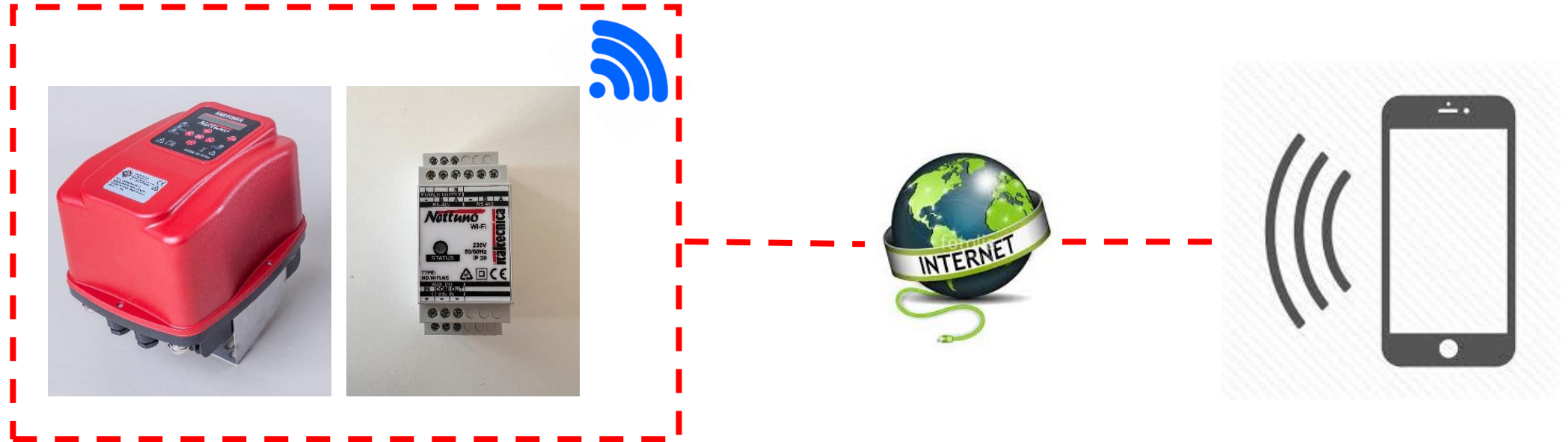


service center supervision



The **service code** can be **shared with an Authorized Service Center** to enable **remote monitoring and assistance**. **By default**, the service code is **000000**; therefore, the **remote assistance service via the Service Center is disabled**. To **authorize remote access** by an **Authorized Service Center**, select «**Change**». The system will **generate a new service code**, which must be **communicated to the selected Service Center**. If the **service code is changed again**, all **previous authorizations will be automatically canceled**, and the **new code** can be used to **enable remote access** by another **Authorized Service Center**.

Section 4



Inverter remote management

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Inverter Data Flow
Fw.V. 0.45.000

[Stato del sistema]



[STAND-BY]

[Visualizzazione Dati Pressione]

	Pressione Attuale	0 Bar
	Set Point Pressione	4.2 Bar
	Set Point 2 Pressione	4 Bar

[Stato I/O]

	Enable
	SetPoint 2
	External Error

[I/O WiFi]

	WiFi Input
	WiFi Output

[0 - Parametri Pressioni] ▼

[2 - Parametri Multiplo] ▼

[3 - Parametri I/O] ▼

[Stato delle pompe]

		MASTER		
	HZ	0 Hz		
1				

[Gestione dispositivo]

Stato
Modifica Parametri Manuale

The Wi-Fi module management page is organized as a single interface, from which it is possible to view, modify, and configure the inverter parameters according to operational requirements.

[Stato del sistema]



[STAND-BY]

System status: indicates the **operating condition of the inverter configured as MASTER** at a given time.

The possible operating conditions are:

STAND BY: the system is stopped and waiting for start-up.

RUNNING: the system is operating.

SYSTEM OFF LINE: the module is connected, but the system is not powered.

SYSTEM ALARM: one or more devices are in an alarm condition.

[Visualizzazione Dati Pressione]



Pressione Attuale 0 Bar



Set Point Pressione 4.2 Bar



Set Point 2 Pressione 4 Bar

During operation, the following values can be **displayed in real time:**

Current pressure

Configured pressure set point

Pressure set point 2

[I/O WiFi]



WiFi Input



WiFi Output

Wi-Fi module auxiliary input

[Stato I/O]



Enable



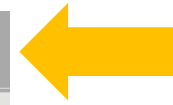
SetPoint 2



External Error

Nettuno auxiliary input

[0 - Parametri Pressioni]				
0.0 Set-point di pressione		4.2 bar		
0.1 Delta pressione avvio pompa		0.5 bar		
0.2 Pressione marcia a secco		0.2 bar		
0.3 Limite di pressione		13 bar		
0.4 Set-point pressione 2		4 bar		
0.5 Delta pressione stop immediato		4 bar		
0.7 Fondo scala trasduttore di pressione		16 bar		



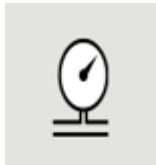
Selecting the arrow icon opens a sub-menu that allows viewing and modifying the available parameters.

[2 - Parametri Multiplo]				
2.1 Indirizzo seriale trasduttore pressione		1		
2.4 Scambio a tempo master		OFF		

[3 - Parametri I/O]				
3.1 Ingresso set-point 2		OFF		
3.2 Ingresso abilitazione esterna		OFF		
3.3 Ingresso errore		N. O.		

[Stato delle pompe]				
		MASTER		
	HZ	0 Hz		
1				

Pump status: allows identification of the device configured as **MASTER**, i.e. the **device that controls the pump**.
The **Hz parameter** displays the **pump operating frequency in real time** during operation.



Symbol indicating which device the pressure transducer is connected to



Individual parameters of the pump.



Device Reset

Section 5



E-mail message attivation

Il mio account

Nome utente:

Nome:

Cognome:

Indirizzo:

CAP:

Città:

Provincia:

Paese:

Numero di telefono

Salva

Cambio password

Password:

Conferma password:

Salva

To enable the service,
select the «ENABLED»
option.

Complete the activation by
entering the **desired e-mail
address** and selecting «Add».

Notifiche email

☒ Abilitate

Salva

Email aggiuntive:

Aggiungi indirizzo di posta elettronica

Aggiungi

Eliminazione account

Elimina

Once the device has been registered in the cloud, it is possible to enable the e-mail notification service.

This service provides notifications regarding the operating status of the inverter.

In the event of any condition that causes the device or the hydraulic system to stop operating, the module automatically generates an e-mail message containing the current status of the device.

(See example)

Da: noreply@cloudwinet.it <noreply@cloudwinet.it>

Inviato: lunedì 12 giugno 2023 14:18

A: xxxxx@italtecnica.com

Cc: xxxxx@italtecnica.com

Oggetto: Test sala prove

Device Id : Test sala prove
Device Mac : BCFF4DE3030C

DEVICE STATUS : STANDBY
Date-Time : UTC-Time: 2023-06-12 12:17
Pump Nr. : busaddr=1
Action : status changed to STANDBY

STATO DISPOSITIVO : STANDBY
Data-Ora : UTC-Time: 2023-06-12 12:17
Pompa Nr. : busaddr=1
Azione : lo stato è diventato STANDBY
