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eCOFOREST EASYNET Remote Access Control Gateway User Manual

Contents

eCOFOREST

eco forest EASYNET Remote Access Control Gateway

General information

- To obtain the most performance from your EASYNET GATEWAY device, we recommend that you read this manual carefully before you use it.
- Keep this manual for future reference.
- Thank you for purchasing an ECO FOREST product. This manual contains information about the overall operation of the unit and on how to use its different functionalities. The user can also find information on how to deal with anomalous performance and some of the most common malfunctions that you can solve yourself.
- This manual contains two different types of warnings that should be heeded, as shown below.
- Indicates a situation that may cause material damage or equipment malfunction. This may also be used to indicate practices that are recommended or not recommended for the equipment.
- **Warning** of imminent or potential danger which, if not avoided, may result in injury or even death.

DANGER!

- This may also be used to warn of unsafe practices.
- The EASYNET GATEWAY has been designed to monitor and remotely access the different ECOFOREST products via a web interface. The manufacturer is not responsible for any material damage and/or personal injury resulting from improper use or incorrect installation of the equipment.
- The device must be installed by a licensed installer in accordance with applicable local regulations and in accordance with the instructions described in the installation manual.

Safety considerations

- The detailed instructions in this section cover important safety aspects and must therefore be strictly complied with.
- All installation and maintenance work must be carried out by an authorised technician following local regulations and according to the instructions described in this manual.
- Improper installation or use of the equipment could cause electrocution, short circuits, fire or other personal injuries and/or material damage.
- Keep the plastic bags included in the packaging out of the reach of children, as improper use could result in injury caused by asphyxia.
- This equipment should not be handled by people with physical, sensory or psychological disabilities, children and people with no suitable experience or knowledge, unless it is under the supervision or direction of a person responsible for their safety.
- If equipment malfunction is detected, contact your technical service to solve any problems that may have appeared.
- Do not touch any of the internal components when the device is operating, as this may result in personal injury and/or property damage.

Recycling

- This device should not be treated as household waste.
- At the end of its life it should be disposed of as common municipal waste, in an environmentally friendly manner and in accordance with local regulations.

Description

EASYNET GATEWAY device

The EASYNET GATEWAY has been designed to establish different connection paths between your ECOFOREST device and any type of device that has a web browser, such as a mobile phone, a tablet, a PC, etc. Through the EASYNET GATEWAY you can access your ECOFOREST device directly (Direct Access), in real time through your local area network (Local Access), or the Internet (Remote Access).

EASYNET GATEWAY kit components

1. Communication module (CPU).
2. Antenna.
3. Bus connection cable.
4. Power supply connector.
5. User and installer's manual

EASYNET web interface

- The EASYNET interface is a web server running on the EASYNET GATEWAY that will allow you to interact with your ECO FOREST device simply. When you access the EASYNET GATEWAY, it will display the main screen of the EASYNET web interface. This lets you view and set up the operating parameters of your ECO FOREST device in real-time. The data shown on the screen vary depending on the ECOFOREST device that you connect to the EASYNET GATEWAY and its settings.

- To access the EASYNET web interface, you must install the equipment under one of the settings indicated in sections 3 and 4. Different settings are available that will allow you to access the EASYNET web interface from your device (mobile phone, tablet, PC, etc.) via a wireless access point, local area, or the internet. Once you access the EASYNET web interface, you will have to enter your security credentials. This information is available on the label of the GATEWAY EASYNET device.
- **USERNAME:** Device serial number (SN).
- **PASSWORD:** First 8 characters of the original wireless network (PWD) password.
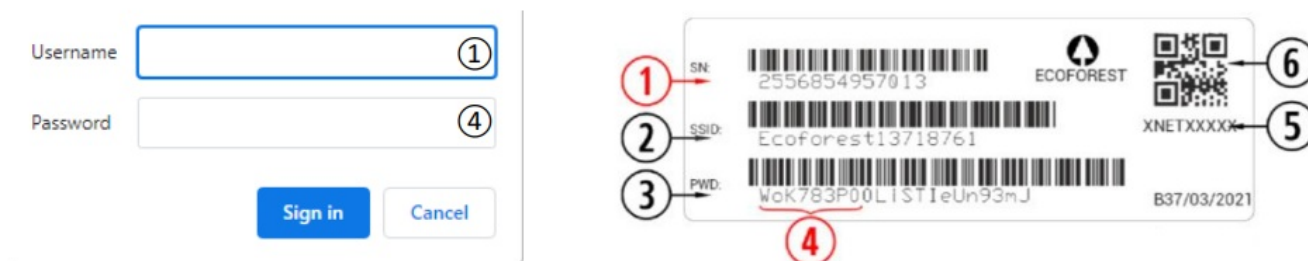

Figure 2.1. Credentials for access to the EASYNET web interface.

- If your device has been installed in a configuration that allows access via the internet (see section 4), you can also access the EASYNET web interface easily by using your mobile phone to scan the QR code provided on the label of the GATEWAY EASYNET device.

Figure 2.2. EASYNET web interface main screen. ECOFOREST heat pump (example).

Main screen fields

1. **CENTRAL INFORMATION BAR.**
    - This displays certain basic information about the device.
2. **OPERATION PROGRAM.**
    - This displays the device's current operating program.
3. **OPERATION MODE.**
    - This displays the active operation modes of the device.

4. **ALARM CODE.**
   - This displays the current alarm status of the device.
   - **N**: EASYNET GATEWAY connected to the ECOFOREST device.
   - **G040:** Connection failure between EASYNET GATEWAY and the ECOFOREST device.
5. **STATUS.**
   - This displays the current status of the device and lets you change it.
6. **USER MENU.**
   - This lets you see and adjust the comfort parameters of the device.
7. **INSTALLER MENU.**
   - This lets you see the operating parameters of the device.
8. **CONNECTION MODE.**
   - This lets you see and configure the EASYNET GATEWAY's connection mode (see section 4).

NOTE

- The content of the EASYNET web interface menus may vary depending on the ECO FOREST equipment that is connected to the EASYNET GATEWAY. Refer to the ECO FOREST device manual for more information.
- Once you access the different menus using the icons at the bottom of the main screen, you can navigate through the available information intuitively. The information will be displayed following the structure of the menu of the monitored ECO FOREST device, so you can consult the device's owner manual to find the information you need.

Installation

DANGER!

- Before installing EASYNET GATEWAY, turn off and disconnect the power supply to the ECO FOREST device you intend to connect. Otherwise, severe injury may result from electrocution.

To install the EASYNET GATEWAY, follow the steps below:

1. Place the communication module inside the ECOFOREST device, in a dry place that does not interfere with the normal operation of the device. To make sure that you install the GATEWAY in the right place, please refer to the manual of the ECOFOREST equipment to which you intend to connect the GATEWAY.
2. Connect the bus communication cable to the EASYNET GATEWAY serial port as shown in the following figure.
3. Connect the bus communication cable to the BMS2 serial port of the ECOFOREST device controller, as shown in the following figure.
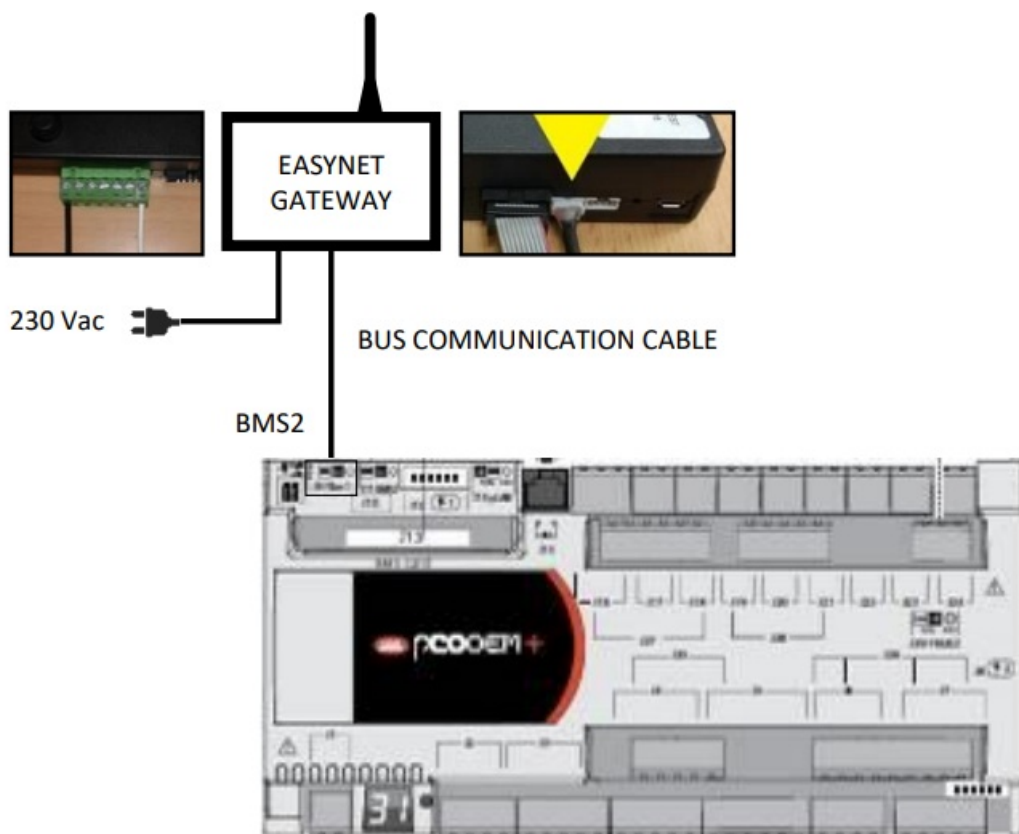
Figure 3.1. Installation of the EASYNET GATEWAY to the ECOFOREST device.

4. Connect the antenna to the SMA connector of the EASYNET GATEWAY and place it outside of the ECO FOREST device in a vertical position.

5. Check that the BMS2 port of the ECO FOREST device is set up as follows.

- **Protocol:** MB Extended
- **Baud rate:** 19200
- **Stop bits:** 2
- **arity:** None
- **Address:** See the table below.

UNIT	ADDRESS
Heat pump / Block supervisor	17
e-Manager / e-System	16
e-Source	15

Table 3.1. BMS2 communications bus addresses for the different ECO FOREST devices.

1. Check that the EASYNET GATEWAY communicates correctly with the ECO FOREST device. The device has a LED that indicates different connection statuses.

PULSE FREQUENCY	STATUS
Pulse 10s on / 10s off	Establishing communication with ECO FOREST device
3 pulses on/off of variable duration	Configuring EASYNET GATEWAY
Pulse 1s on / 1s off	Device connected to ECO FOREST device
Continuous on pulse	Communication failure with ECO FOREST device

Table 3.2. Connection statuses between EASYNET GATEWAY and the ECO FOREST device.

NOTE

If after 2 minutes the GATEWAY LED remains on continuously, check that points 2 to 5 have been carried out correctly and restart the device. If the problem is not resolved, contact your service representative.

Connection modes

There are four connection modes through which you can access the EASYNET GATEWAY. These are summarized in the following table.

MODE CONNECTION	ENABLED FACTORY	ACCESS DEVICE NETWORK	ACCESS THE LOCAL AREA NETWORK	ACCESS REMOTE INTERNET
DIRECT-ETHERNET	✓	✓	—	—
ORIGINAL AP-WIFI / CUSTOM AP-WIFI	—	✓	—	—
LAN-ETHERNET	✓	—	✓	✓
LAN-WIFI	—	—	✓	✓

Table 4.1. EASYNET GATEWAY connection modes.

The EASYNET GATEWAY is distributed from the factory configured to make connections via an Ethernet cable, either through a direct connection (DIRECT-ETHERNET), or through your local network (LAN-ETHERNET).

DIRECT-ETHERNET mode

This lets you access the ECO FOREST device from your PC through a direct connection by Ethernet cable to the EASYNET GATEWAY. To make this type of connection, follow the steps below:

1. Connect your PC directly to the EASYNET GATEWAY via an Ethernet cable.
2. Set up the TCP/IP protocol of the Ethernet port on your PC with a static IP assignment within the following parameters:
   - **IP Address:** 192.168.2.X (Where X is a value between 2 and 254, other than 99).
   - **Subnet** mask: 255.255.255.0
   - Refer to the help documentation of your PC operating system to identify how to access the TCP/IP protocol settings window.
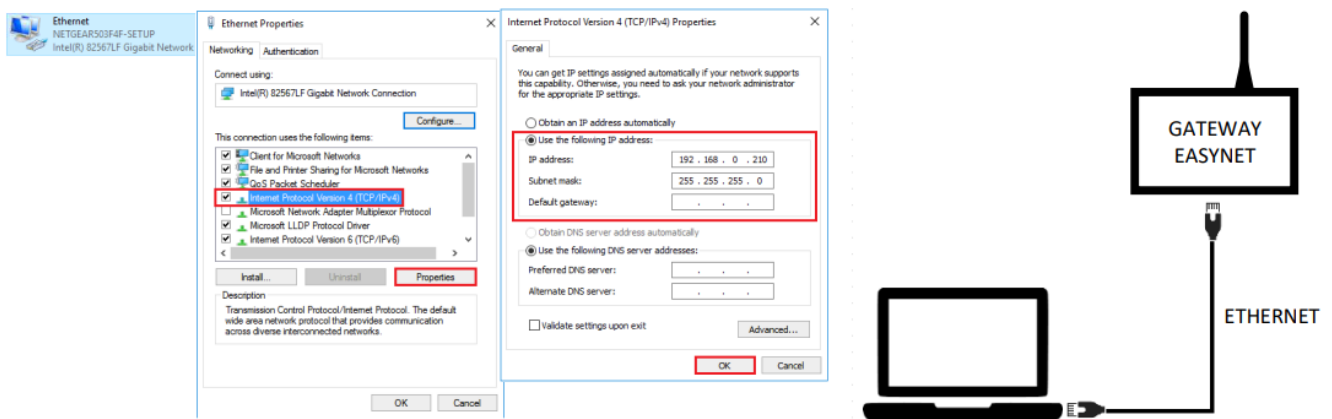3. Access the EASYNET web interface from your PC with a web browser via **http://192.168.2.99**.

Figure 4.1. DIRECT-ETHERNET mode connection scheme. Direct cable access (example).

NOTE

- The DIRECT-ETHERNET mode always remains enabled by default.
- This configuration does not allow remote access via the Internet.

AP-WiFi ORIGINAL / CUSTOM AP-WiFi mode

- This lets you access the ECOFOREST device from your device (mobile phone, tablet, PC, etc.) through a direct connection to the wireless access point generated by the EASYNET GATEWAY, without the need to have your own local area network or an internet connection. To make this type of connection, follow the steps below:

1. Make sure that the antenna of the EASYNET GATEWAY is correctly connected.
2. Access the EASYNET interface connection setup screen using the DIRECT-ETHERNET mode (see section 4.1).
3. Select ORIGINAL AP-WiFi or CUSTOM AP-WiFi.
4. If you have selected ORIGINAL AP-WiFi, save the settings – you don't need to perform the connection test.
5. If you have selected CUSTOM AP-WiFi, enter the name (SSID) and the password you want to use as the wireless access point credentials. Preferably, use alphanumeric characters. Some symbols may not be recognised by the system.
6. Press the TEST button to check that the credentials you have entered are valid.
7. If the test is successful, save the settings and take a note of the credentials you have entered. If the test is unsuccessful, check the credentials you have entered and try again.
8. Disconnect the PC from the EASYNET GATEWAY.
9. Connect directly to the wireless access point that EASYNET GATEWAY has generated, within your range. To do this, use the original Ecoforest credentials (ORIGINAL AP-WiFi) available on the device label, or those entered in point 5 (CUSTOM AP-WiFi).
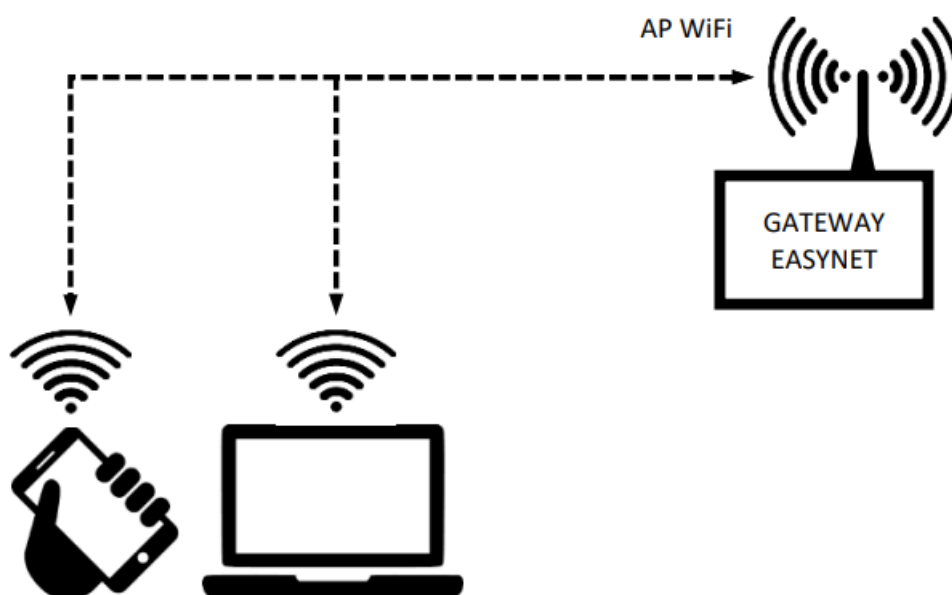10. Access the EASYNET web interface from your device through a web browser via **http://192.168.3.1**.

Figure 4.2. AP-WiFi mode connection scheme. Direct access by WiFi (example).

- The wireless network generated by GATEWAY does not have an internet connection.

NOTE

- Some devices, such as mobile phones, can block access to networks that do not have an internet connection. Check your device's settings to allow connection to networks that do not have an internet connection.
- Access to the web interface is only possible within the range of the wireless signal generated by the GATEWAY. Approximately 50 meters in an obstacle-free area.

LAN-ETHERNET mode

- This lets you access the ECO FOREST device from your device (mobile phone, tablet, PC, etc.) by means of a connection through your local area network, using an Ethernet cable connection between your router and the EASYNET GATEWAY. To make this type of connection, follow the steps below:

1. Connect the EASYNET GATEWAY to your router using an Ethernet cable.
2. Access the EASYNET web interface through the my.ecoforest.com portal from a device that has an Internet connection and select the desired access type. See section 5.
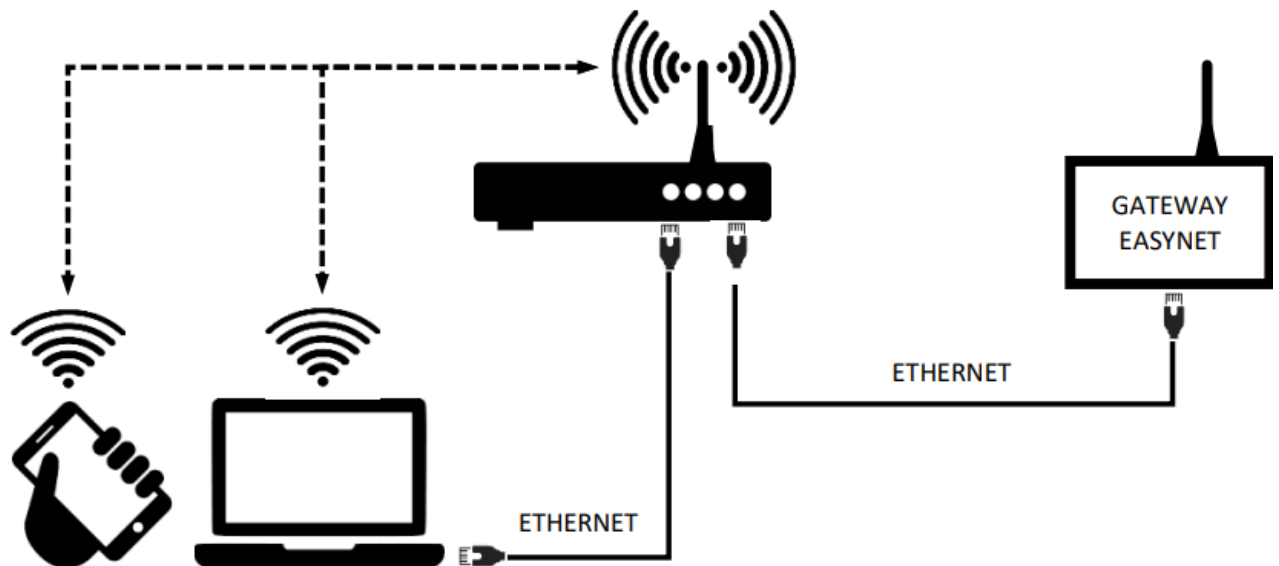

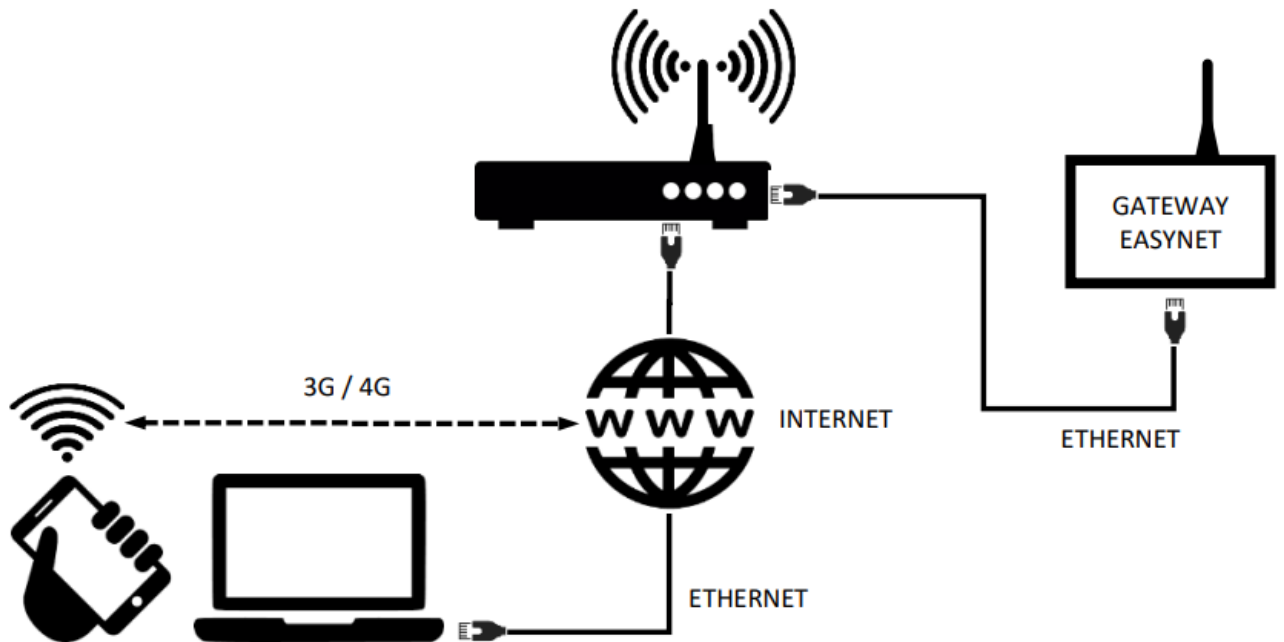**Figure 4.3.** LAN-ETHERNET mode connection scheme. Access through the local network (example).

Figure 4.4. LAN-ETHERNET mode connection scheme. Remote access via the Internet (example).

NOTE

- The LAN-ETHERNET settings are enabled at the factory by default. If it has been disabled, try logging in using the current settings to reconfigure it. If this does not work, contact your service representative.
- To remotely access the device in LAN-ETHERNET mode, your local area network must be connected to the Internet and your router must allow data traffic through port 80.

LAN-WiFi mode

This lets you access the ECO FOREST device from your device (mobile phone, tablet, PC, etc.) by means of a connection through your local area network, using a wireless connection (WiFi) between your router and the GATEWAY EASYNET. To make this type of connection, follow the steps below:
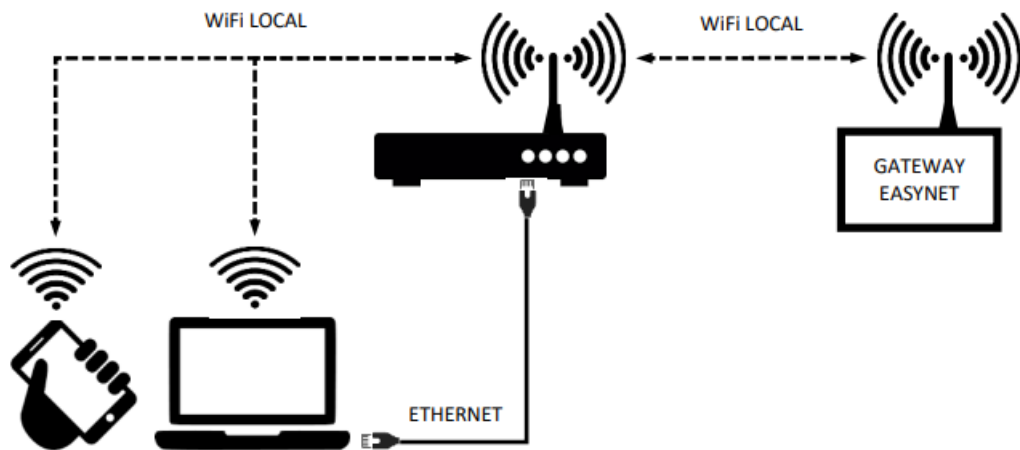
Figure 4.5. LAN-WiFi mode connection scheme. Access through the local network (example).
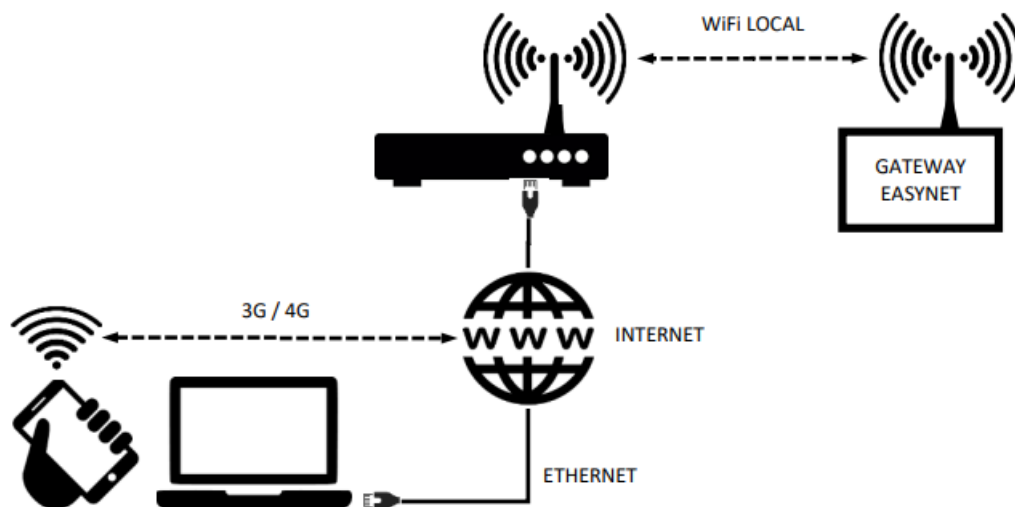

Figure 4.6. LAN-WiFi mode connection scheme. Remote access via the Internet (example).

NOTE

- If the connection test is unsuccessful, this may be due to the wireless signal generated by the router being too weak. Try to position the EASYNET GATEWAY antenna in a more favourable location.
- To remotely access the device in LAN-ETHERNET mode, your local area network must be connected to the Internet and your router must allow data traffic through port 80.
- To access the device in LAN-WiFi mode, the connection must be made within the range of your wireless local network.

Connection mode settings

To change the settings of the GATEWAY EASYNET connection type, follow the steps below:

1. Access the EASYNET web interface via one of the enabled connection modes.
2. Access the connection settings screen by following the steps below
3. Select the desired connection mode.
4. Refer to the EASYNET web interface access information of the enabled connections.

- **WiFi:** Name (SSID) of the enabled wireless local network or wireless access point.
- PASSWORD: Password of the enabled wireless local network or the enabled wireless access point.
- WiFi IP: IP for wireless access to GATEWAY.
- **ETHERNET IP:** IP for access to GATEWAY by cable.

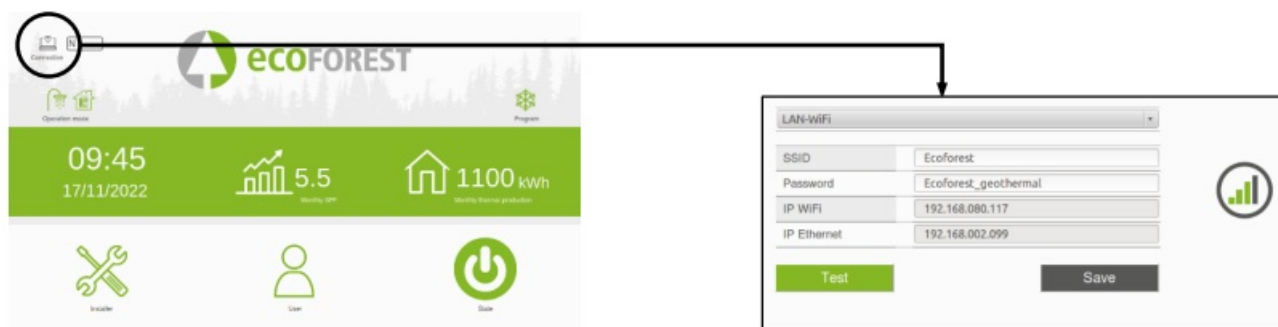**Figure 4.7.** Setting up the connection mode.

my.ecoforest.com web portal

You can register your device through the **my.ecoforest.com** web portal and access the different functionalities it offers. To do this, the GATEWAY EASYNET device must be installed in a configuration that allows you to connect via the internet. This portal will give you centralised access to all your Ecoforest equipment and will allow you to access the information contained in their operational logs which are stored in the cloud. On the other hand, it will also provide you with connection links to your equipment's GATEWAY EASYNET devices, which means that you will be able to modify their settings or view operational information in real time.

NOTE

- To access the device locally from the web portal link, the connection needs to be within the range of the local wireless network.
- To remotely access the device, your local area network must be connected to the Internet and your router must allow data traffic through port 80.
- The first time you register the EASYNET GATEWAY on the web portal, it may take up to a maximum of 15 minutes to assign the access links. The link will be assigned instantaneously for subsequent connections.
- If your local area network does not have an internet connection, the local and remote access links will not be displayed on the web portal. Contact your internet service provider.
- If the remote link is displayed on the web portal but you cannot access the computer remotely, contact your internet service provider.

Manufacturer's warranty

- ECO FOREST is liable for lack of conformity of the product or its spare parts, in compliance with the current regulations of the country where the product is purchased.
- The warranty is only valid in the country where the product is purchased.
- Conditions and validity of the warranty
- For this warranty to be considered valid the following conditions must be verified.
- ECOFOREST must allow the product under warranty to be sold in the country where it is going to be installed.
- The product under warranty must be used exclusively for the purpose that it was designed for.
- All installation, start-up, maintenance and repair work carried out on the unit must have been performed by a technical service authorised by ECOFOREST.

- All replacement of parts must be carried out by a technical service authorised by ECOFOREST and always with original ECOFOREST spare parts.
- The purchaser must advise the establishment from which they purchased the unit, in writing, the reason for any lack of conformity, including the serial number of the product and the date of purchase, within no more than 30 (thirty) days from the day on which he or she became aware of said non-conformity.
- For the warranty to be effective, the purchaser must present an invoice that substantiates the date of purchase, duly stamped and signed from the establishment that made the sale.

Disclaimer of warranty

- The warranty does not include product non-conformities derived from:
- Weather conditions, chemical agents, improper use and other causes that do not depend directly on the product. Installation and/or handling of the equipment by unauthorised personnel.
- Any installation, maintenance or repair that does not follow the procedures set forth in the documentation provided to that end by ECOFOREST.
- Improper transportation of the product.
- Part wear due to normal equipment operation, unless due to a manufacturing defect.

Request for service under warranty

- Any request for service during the term of warranty must be forwarded to the establishment that sold the product, indicating in writing the reason for the non-conformity, the serial number and he date on which you purchased the product.
- Product returns will only be accepted if previously accepted in writing by ECOFOREST.
- The product must be returned in its original packaging and with a legal document that supports the date of purchase from the establishment that made the sale.

Authorised distributors and technical service

- ECOFOREST has an extensive network of authorised companies that distribute and perform the technical service on its products. This network will provide our customers with all the information and technical support they need, anywhere and under any circumstance.

ECOFOREST GEOTERMIA, S.L.

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- **Tel.: +34 986 262 184**
- **http://www.ecoforest.es**
- Gateway EasyNet Gen2 USER AND INSTALLATION manual Version 00E/2022
- The manufacturer reserves the right to make any necessary changes to the contents of this manual without prior notice.

Documents / Resources

eCOFOREST EASYNET Remote Access Control Gateway [pdf] User Manual
EASYNET Remote Access Control Gateway, Remote Access Control Gateway, Gateway

References

- **Ecoforest**
- **↠ Estufas de pellets, bombas de calor, biomasa, aerotermia y geotermia ↠ 2023**
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