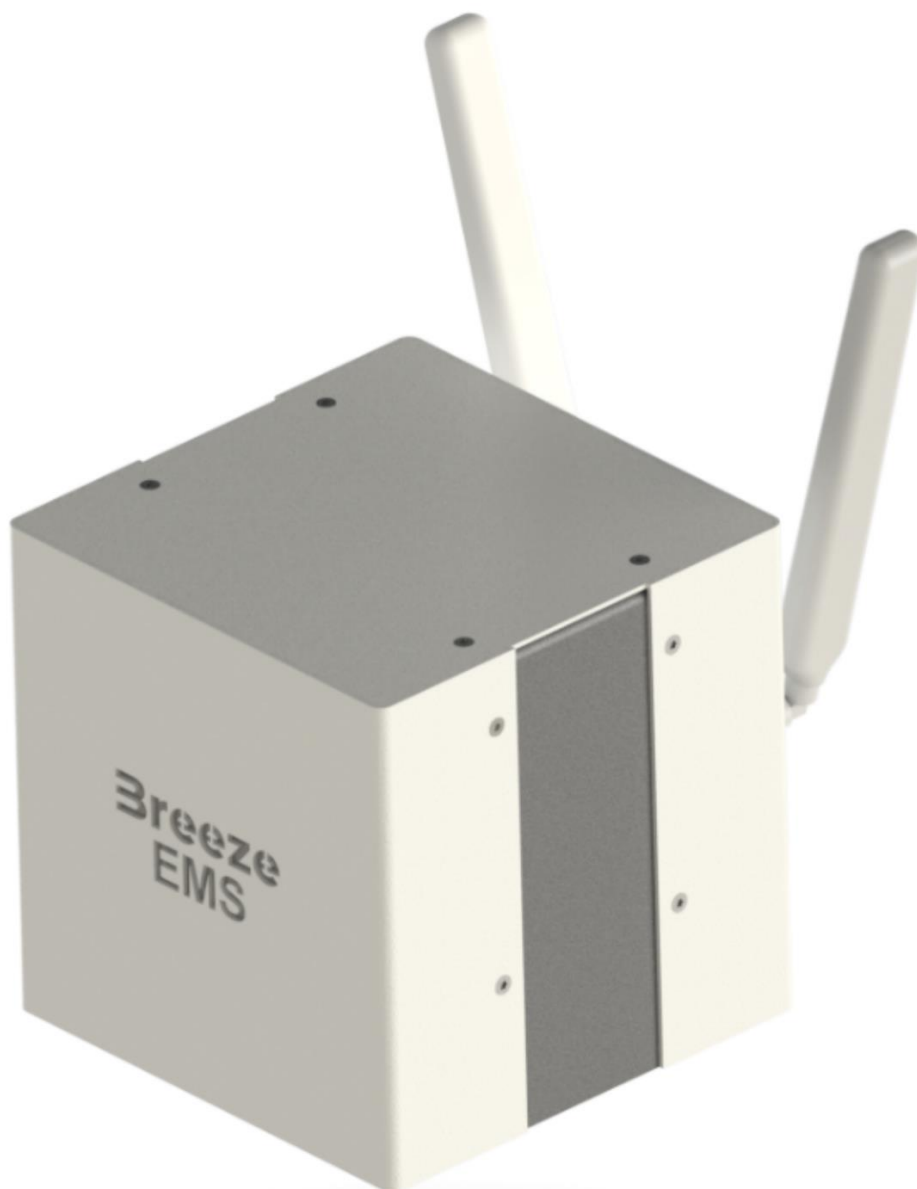


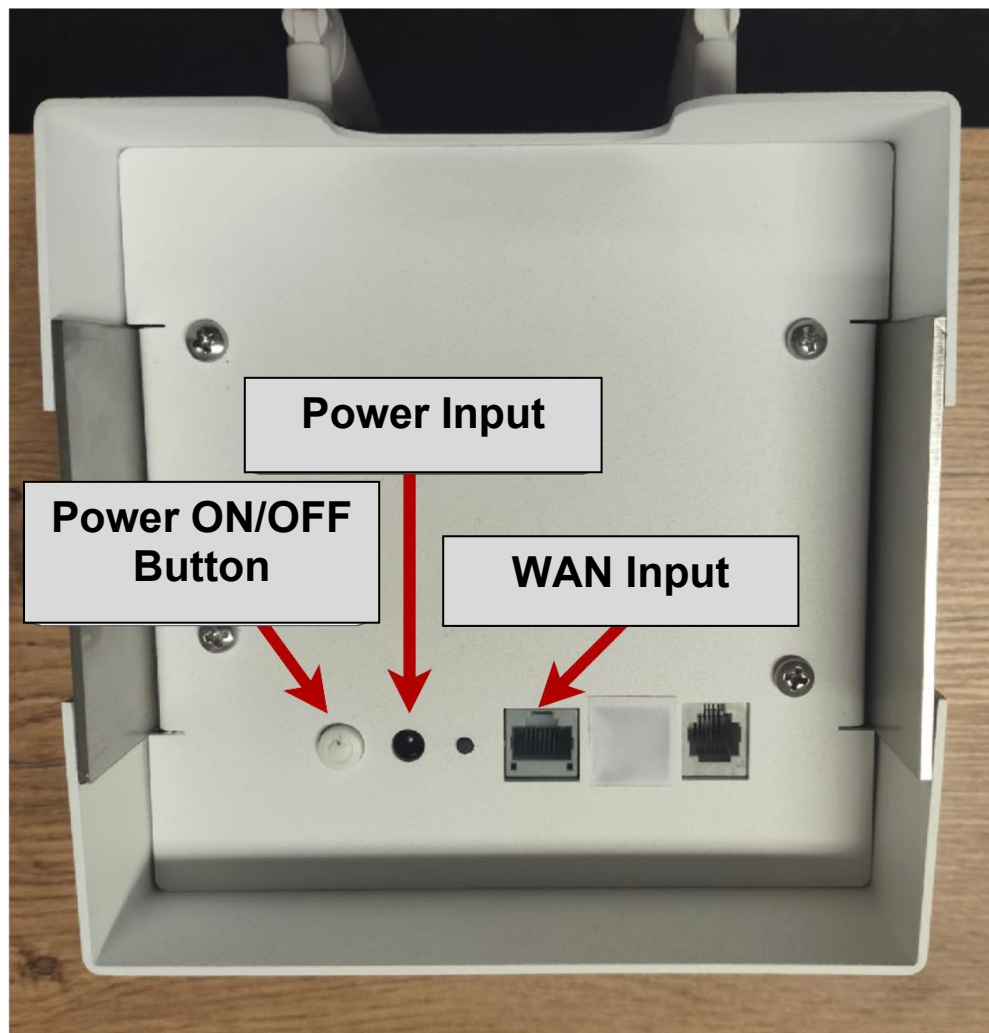


Initial Configuration Guide for Breeze EMS



1. Connecting the EMS

Description of Outputs



Power Supply

1. Connect the included power supply to an electrical outlet.
2. Connect the other end of the power supply to the EMS, to the port marked as "Power Input."
3. Press the **"Power Button"** on the EMS to turn it on.

Internet Connection

A. LAN (Wired)

1. Connect one end of the **Ethernet cable** to the router or modem that provides internet access
2. Connect the other end of the Ethernet cable to the port marked as "WAN Input" on the EMS.
3. Ensure the cable is securely plugged into both ports to ensure a stable connection.

B. Wi-Fi (Wireless) – [for version 1.0]

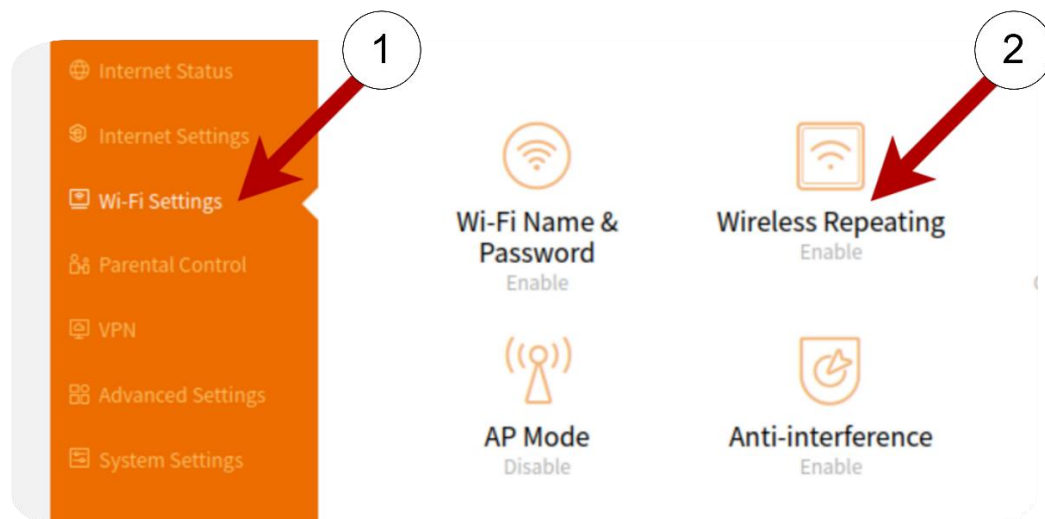
Version 1.1 does not support wireless connection functionality. To ensure wireless connectivity, it is recommended to use a **media bridge** such as **ASUS RP-N12**

1. Connect via laptop or smartphone to the Wi-Fi network starting with "EMS." Use the EMS serial number as the password for the network.
2. Open a web browser and enter the address: 192.168.0.1.
3. You will see the router login panel. The password is 'omegabreeze'.



The image shows the Tenda router login interface. At the top is the Tenda logo in orange. Below it is a login form with a text input field containing the placeholder text "Please enter a login password." and a red error message "This field cannot be blank." below it. A green "Login" button is positioned below the input field. At the bottom of the form is a link that says "Forgot password?".

1. After logging in, select the "Wi-Fi Settings" option from the menu on the left. Then click on "Wireless Repeating."




2. Wireless Repeating Mode Settings


- I. Check the **"Wireless Repeating"** option.
- II. Set **"Repeating Mode"** to **"WISP."**
- III. In the **"Upstream Wi-Fi Name"** field, select the network name that the EMS should connect to. If the network is not visible, click the scan icon on the right and try again.
- IV. In the **"Upstream Wi-Fi Password"** field, enter the password for the selected network.

Wireless Repeating


Wireless Repeating: ☒

Repeating Mode: ☒ WISP ☐ Client+AP

Upstream Wi-Fi Name: 

Upstream Wi-Fi Password: 

3. **P After clicking "Save," you will receive a notification.** Click **"OK,"** and the router in the EMS will reset.



The router must reboot to activate your settings. Do you want to reboot the router?

4. Wait for one minute for the router to reset.

Reboot

Rebooting... Please wait.5%

5. After the reset, reconnect to the EMS Wi-Fi network and log into the router.

If the configuration is correct, you will see a green icon between the **"upstream router"** and **"My Router"**, and you will have internet access.



In case of a failed connection, after logging in, you will see a graphic as shown below. Go back to **step 4** and make sure all the data has been entered correctly.



2. Connecting Devices to the EMS

2.3 DEYE Hybrid (with Wi-Fi datalogger)

- A. **Connect to the Wi-Fi network of the datalogger connected to the inverter** (the Wi-Fi network name and password are on the label)



- B. Open a browser and enter 10.10.100.254.
C. You will be prompted for login credentials:
- Username: admin
- Password: admin
D. **Click "Wizard"** on the left-hand side.

- E. Select the Wi-Fi network starting with "EMS" from the detected networks (once selected, the name will automatically fill in the SSID field). Then, change the "Encryption method" to "WPA2PSK" and the "Encryption algorithm" to "AES" (as shown in Fig. 1). Afterward, click the blue "Next" button.

Please select your current wireless network:

Site Survey

	SSID	BSSID	RSSI	Channel
<input type="radio"/>	smartbreeze	4:42:1A:82:4D:98	80	11
<input checked="" type="radio"/>	BREEZE	78:45:58:71:AA:BE	33	11
<input type="radio"/>	BREEZE_freeWIFI	7E:45:58:71:AA:BE	33	11
<input type="radio"/>	ASUS	4:42:1A:82:28:D0	28	2
<input type="radio"/>	BREEZE_freeWIFI	7E:45:58:71:A9:81	11	1
<input type="radio"/>	BREEZE	74:83:C2:84:97:2	11	11
<input type="radio"/>	BREEZE	78:45:58:71:A9:81	9	1
<input type="radio"/>	BREEZE_freeWIFI	7A:83:C2:84:97:2	1	11

★Note: When RSSI of the selected WiFi network is lower than 15%, the connection may be unstable, please select other available network or shorten the distance between the device and router.

Refresh

Add wireless network manually:

Network name (SSID)
(Note: case sensitive)

Encryption method

Encryption algorithm

Next

1 2 3 4

Fig 1. Konfiguracja połączenia Wi-Fi

- A. In the next window, enter the password (in the "Password" field) for the network, which is the serial number of the Breeze EMS (leave the other fields empty), then click the blue "Next" button.
- B. In the next window (window 3), leave everything unchanged and click the blue "Next" button, then click OK.

Congratulations! You have successfully connected the EMS to the Inverter!

2.4 Other Devices with Wi-Fi/ETHERNET/MODBUS Communication

It is possible to integrate additional devices with the EMS system, provided that our system can communicate with them. The procedure is as follows:

1. Connect the device to the Wi-Fi network provided by the EMS (the password is the Serial Number)
2. Send an email following the format below to serwis@breeze-energies.com

Sender:

Full Name:

Email:

Phone Number:

Client:

Client Name:

Email Client:

Breeze EMS

Serial Number:

Information about the device added to EMS:

Device Manufacturer

Device Model (full name):

Device Serial Number:

Data to be collected and processed:

Other (e.g., when pressing a button, the data entered in the adjacent field should be sent to the device):

Request a trial to add the device to the system.

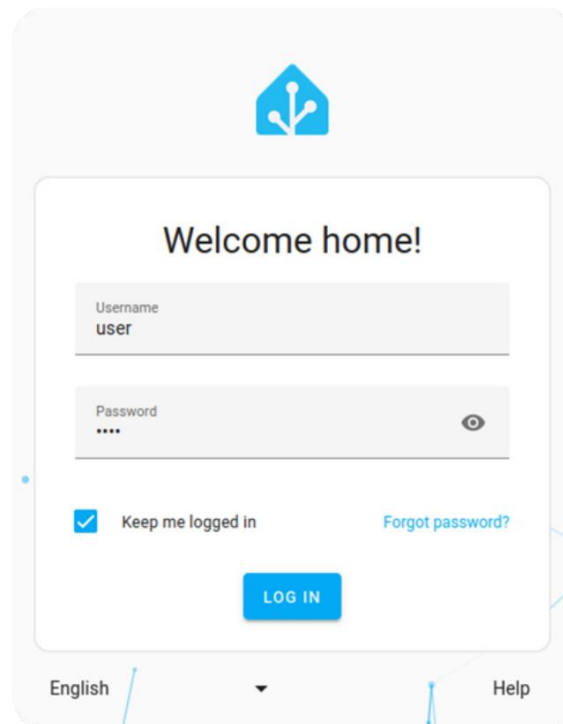
Please note that this may involve additional costs and an extended configuration time.

We do not guarantee the successful addition of an additional device to the system.

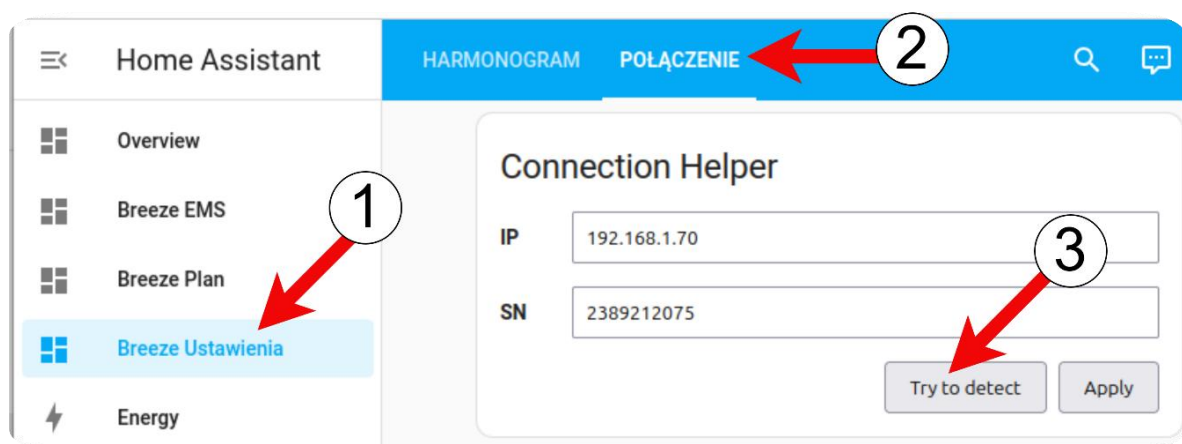
3. Breeze EMS Configuration

3.4 Connecting to Breeze EMS with a Laptop or Smartphone

1. Connect to the Wi-Fi network provided by the EMS (the password is the Serial Number)
2. Open a web browser
3. Enter the following address: homeassistant.local:8123
4. Log in using the following credentials: Username: user Password: user



5. In the menu on the left, go to "Breeze Settings," then "CONNECTION," and click "Try to detect." The inverter should be automatically detected (the data should appear in the 'IP' and 'SN' fields). Then click **Apply** (the system will reset and should automatically connect to the inverter).



Congratulations! You have successfully configured the EMS with the inverter! 🎉

Ask the Breeze technician to provide the information for remote connection via VPN.

3.5 Remote Access via VPN

Through the Form:

1. Go to the website: <https://breeze-energies.com/breeze-ems/>
2. Click the **"Add Installation"** button
3. Complete the form
4. A link with an invitation and connection instructions via VPN will be sent to the provided client email address.

Authorization and sending of responses with the link is only available on business days, from 10:00 AM to 4:00 PM. Responses are provided within two hours of receiving the request.

Through Email:

1. Send an email following the format below to serwis@breeze-energies.com

Sender:

Full name:

Email:

Phone number:

Client:

Full name

Client:

Email klienta:

Breeze EMS

Serial Number:

Authorization and sending of responses with the link is only available on business days, from 10:00 AM to 4:00 PM. Responses are provided within two hours of receiving the request.

To speed up the authorization process, please call: +48 726 058 572