Product description

Used to quickly and easily connect Ageon controllers to ArcSys Cloud, a cloud-based monitoring system.

The WebFi allows users to monitor temperature controller data through ArcSys Cloud via a web browser or an app available for Android and iOS without the need for wired connections.

Technical specifications

Power Supply	Powered by the Ageon controller being monitored.
Compatibility	Ageon controllers with a USB communication port, including the Black Line, AutomaSol WEB, and K116 BD.
USB Connectors	A cable with one end featuring a Mini USB connector for the controller and the other end with a USB-C connector for the WebFi.
Dimensions	Height: 20 mm; Diameter: 55 mm.
Wi-Fi	Standard: IEEE 802.11 b/g/n 2.4 GHz; Protocol: IPv4 - DHCP or Static IP; Wi-Fi Transmission Power: 11 dBm.
Bluetooth	Standard: Bluetooth Low Energy (BLE); IEEE Standard: IEEE 802.15.1; Version: 4.2; Frequency: 2.4 GHz ISM band; Transmission Power: 0 dBm; Security: AES-128 encryption.
Environment	Storage and operating temperature: 0 to 40 °C; Storage and operating humidity: 10 to 80 % RH, non-condensing.
System Requirements	For access point connection: Device with Chrome, Mozilla, Edge, Safari, or Brave browser; For Bluetooth connection and WebFi Connect download: Smartphones running Android Lollipop (5.0 - November 2014) or later, and iOS 12.4 (2018 - models 5S, 6) or later.

Package contents

✓ 1 WebFi module;
✓ 1 USB cable (Mini USB to USB-C);
✓ 1 Quick installation guide

LED states

Configuration mode:

- Green LED blinking twice per second: Configuration mode is active, and Bluetooth is enabled for connection via WebFi Connect App;

- Red LED blinking: Configuration mode is active, and the access point is enabled for a device to connect directly to the module.

Battery status:

- Red LED blinking every 3 seconds: Low battery level.

Connection status:

- Red LED on: Wi-Fi is not configured or there is no network available for connection;

- Green LED blinking: Cloud is not configured or disconnected;

- Green LED on: Successfully connected to the cloud.

Other states:

- Red and green LEDs blinking alternately every 0.5 seconds: Indicates that the WebFi is updating its firmware.

- Red LED blinks twice per second while button is pressed: Whenever the button is pressed, the red LED will blink twice per second, indicating that the button is being held.

Button functionality

When the device is OFF:

- Button held for 3 seconds: Turns the device ON;

- Button held for more than 15 seconds: Restores the device to factory settings. The green LED will turn on to indicate the procedure is complete.

When the device is ON:

- Button held for more than 10 seconds: Turns the device OFF. That is intended for long-term storage when the device will not be used;

- Button held for 2 to 5 seconds: **Activates Bluetooth configuration mode** and deactivates the access point;

- Button held for 6 to 10 seconds: **Activates access point configuration mode** and deactivates Bluetooth.

Pre-configuration information

- The WebFi can be configures in two ways: Via Bluetooth using WebFi Connect App; or via the access point function.

- In both cases, an ArcSys Cloud account must be created. That can be done through the link https://arcsys.cloud/. You can select the desired language by clicking on the flag. Log in to your account or, if you do not have one, click on 'Register' and use the MAC Address of the device, which is laser-etched on the enclosure.

- The WebFi features a status LED. Review its functionality before starting the device configuration;

- Read about the button operation before starting the device configuration;

- Once the Bluetooth or access point configuration mode are activated, if no device connects, the configuration mode will automatically turn off after 5 minutes.

Creating an account on ArcSys Cloud

Connect your device (smartphone, tablet or laptop) to the internet and visit https://arcsys.cloud/. You can select the desired language by clicking on the flag.

To create an account, you need the MAC address of your WebFi device. This can be found on the module's configuration screen under the "DEVICE INFORMATION" tab and is laser-etched on the device enclosure.

Follow the instructions on the website to create your account, then proceed with the device configuration steps outlined in the next sections: "Bluetooth Configuration" or "Access Point Configuration."

Bluetooth configuration – Step by step

NOTE: The app is only available in Portuguese. If you need to configure the device in English or Spanish, all the features can be accessed with access point mode, detailed in the next section.
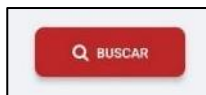
1. Download WebFi Connect App

Download the WebFi Connect app from your smartphone's app store (QR codes for the Play Store and Apple Store are available). Before configuring via Bluetooth, ensure your smartphone is connected to a Wi-Fi network with internet access and that Bluetooth is enabled.

2. Connecting to WebFi

Enable Bluetooth on the WebFi (refer to the "Button Functionality" section at the beginning of the manual). Open the WebFi Connect app and click on "BUSCAR". Select the WebFi you want to configure and confirm the connection.

If this is the first configuration, select "SIM" in the next window to proceed to the next step.

If you select "NÃO", you will be redirected to the login screen, where the default username and password are "admin".

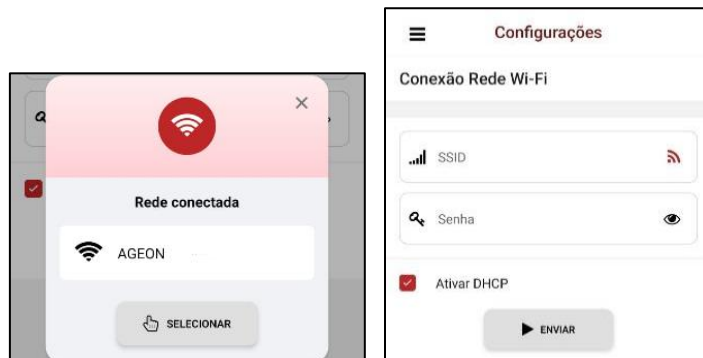

3. Connecting WebFi to Arcsys Cloud

Using the app, you can register the WebFi to your ArcSys Cloud account. Ensure your cloud account has already been created and that you have your login information.

This process automates the initial setup, eliminating the need to access the Cloud separately.

4. Connecting WebFi to a Wi-Fi Network

After logging into the Cloud, you will automatically be redirected to the WebFi Wi-Fi connection screen. The app will display the network your smartphone is currently connected to.

To connect the WebFi to this network, click "SELECIONAR" and enter the password. To connect to a different network, click X and manually enter the desired network's SSID (name) and password.

WebFi connect settings

At the bottom of the WebFi Connect App screen, you will find icons providing access to different settings:

- General: View system information and settings;
- Arcsys Cloud: configure cloud-related settings, such as access codes and offline event logging;
- Wi-Fi network: Manage Wi-Fi network and DHCP settings;
- Date and time: Switch between manual and automatic adjustments;
- Advanced: Change login credentials, perform firmware updates, or restore factory settings.

Access point configuration – Step by step

NOTE: For first-time use, let the module charge via the USB port of the Ageon temperature controller for at least 120 MINUTES. Do not begin the configuration if the battery has not been sufficiently charged, as the module may shut down during the initial setup.

1. Connecting a Wi-Fi device to the WebFi

Use a smartphone or laptop to locate the WebFi. If using a laptop, ensure no network cables are connected. If using a smartphone, disable mobile internet connection during the procedure.

Go to the list of Wi-Fi devices and find the WebFi network with the following format: WebFi XX-XX, where XX-XX represents the last four digits of the device's MAC address. Enter the WebFi password: ageonwifi-XX-XX. "ageonwifi" must be written exactly as shown, and the MAC address letters must be in uppercase. Example:

Network Name: WebFi 00-E4

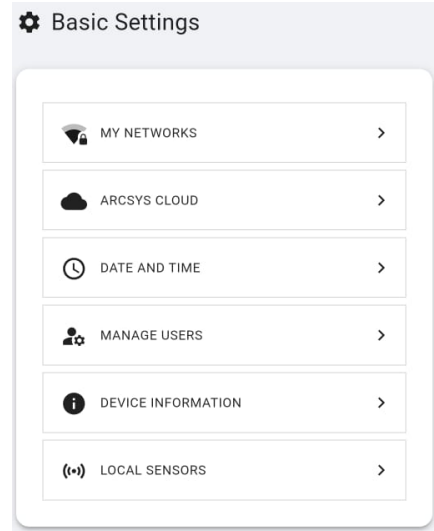**Password:** ageonwifi-00-E4

Once connected, you will establish a Wi-Fi link with the WebFi.

NOTE: Each module has a different MAC address, network name, and password based on the last four digits of the MAC address. Therefore, your WebFi's network name and password will be different from the example.

2. Starting the module configuration

Open a web browser and type **192.168.4.1** in the address bar. Press **Enter** to open the login screen. The default username and password are both "**admin**". After entering the credentials, click **LOGIN**.

Navigate to "Basic settings" > "DEVICE INFORMATION".

Write down the MAC address. It will be used to add the device to an existing account or create a new one on ArcSys Cloud. The MAC address is also laser-etched on the module.
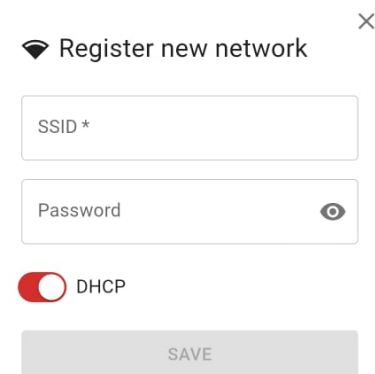

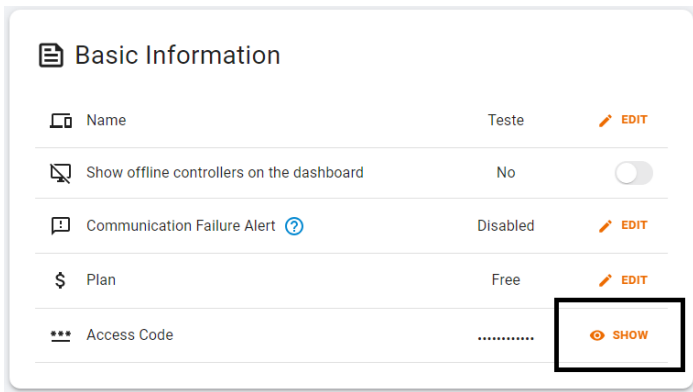Press "Basic Settings" to return to the main menu.

In the main menu, go to "MY NETWORKS." Select the network you want to use and enter the password. Then press SAVE.

Now, your WebFi is connected to the network. You just need to configure it on ArcSys Cloud.

If you already have an ArcSys Cloud account, log in and go to the "Devices" tab. Then, click the "Add" icon to add the MAC address of the new module you are configuring. If you don't have an account yet, follow the steps in the "Creating an ArcSys Cloud Account" section.

Go to the "Devices" tab in ArcSys Cloud, click on the device you want to connect, and then click the "SHOW" icon to display the access code.
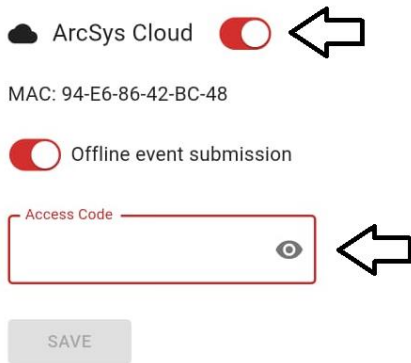
Basic Information

🖥 Name		Teste	✏ EDIT
🖵 Show offline controllers on the dashboard		No	⬤
💬 Communication Failure Alert ❓		Disabled	✏ EDIT
$ Plan		Free	✏ EDIT
••• Access Code		....	👁 SHOW

NOTE: Each device in ArcSys Cloud has a unique code, and this code may change if the device is restored.

Copy the access code from ArcSys Cloud, then return to the WebFi configuration screen. For this, the LED must be blinking red; if it is not, press the button for 5 to 10 seconds.

To access the device, you can either connect directly to it, as you did the first time, or if it is connected to a network, simply enter the IP address that the WebFi has acquired on the network.
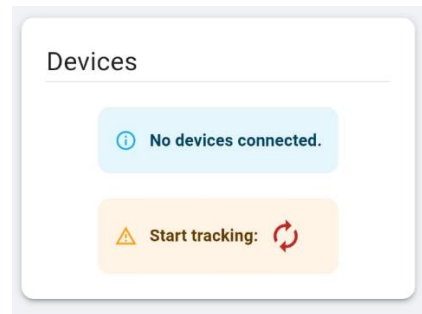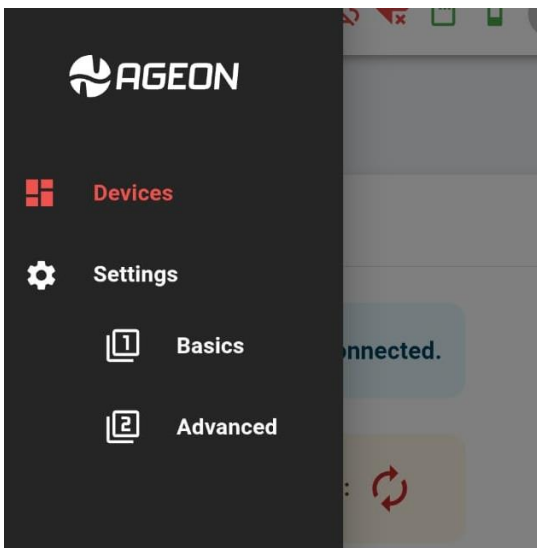
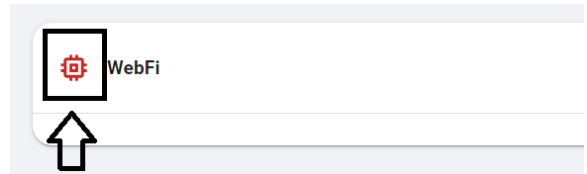Go to "Basic Settings" and "ARCSYS CLOUD", and the following screen will appear:

Enable the Cloud through the button. Paste the code in the blank field and click SAVE. After this step, your WebFi and the controller should appear on the "Dashboard" screen of ArcSys Cloud in a few moments.
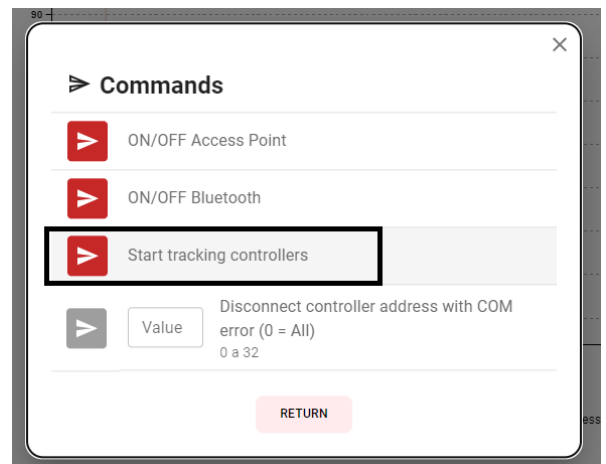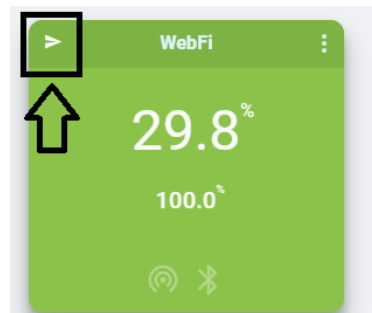
Manual addition of device(s)

Whenever the WebFi turns on, it checks if any device is connected. If not, once connected via access-point, you will need to go to "Devices" and click the "Start Tracking" button.

The same action can be performed from ArcSys Cloud. On the Dashboard page, select the icon of the WebFi device you want to access, as shown in the picture below.

In that page, access the Commands, clicking on the icon highlighted below. Then click on "Start Controller Tracking".

Notes

- When changing the access-point password, restart the device to apply the change;

- To update the firmware through the interface, the battery must be charged to at least 15 %.

- WebFi can connect to up to 3 Wi-Fi points, switching automatically if one disconnects;

- The device has an "Offline Events" tab so the user can review events that occurred during a disconnection from the internet;

- The WebFi is for individual use per controller, meaning if you have an installation with 10 temperature controllers, you will need 10 WebFis (or you may also use WebFi Pro, a device for up to 32 controllers);

- The device's functions depend on the current plan, which can be either free or premium.