AC Cloud Control

Device Configuration with Bluetooth

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Important User Information

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1. Overview

About this document

This document describes the Wi-Fi network configuration process of the Intesis AC Cloud Control device (hereafter referred to as “AC Cloud Control”) using Bluetooth. It also describes the device toggle button functionalities and the meaning of the AC Cloud Control LED colors.

About the solution

The AC Cloud Control is the perfect IoT solution for professional AC management. Developed in collaboration with the main AC manufacturers, the AC Cloud Control enables the control of any domestic, commercial or VRF unit from a mobile application or from any web browser.

Figure 1.- AC Cloud Control integration.

Before starting

Be sure you have everything you need for the configuration process:

- **AC Cloud Control device**

Figure 2.- AC Cloud Control device.

IMPORTANT: Make sure you have the proper AC Cloud Control. It depends on the Indoor Unit model. Check the *Intesis AC Compatibility tool*.

- **Access point**

  The AC Cloud Control supports the 2.4GHz band and the 802.11 b/g or /n mode.

Figure 3.- Access point

- **Smart device**

  Android and iOS operative systems are supported.

Figure 4.- Smart device

- **AC Cloud Control App**

  Download and install it in your smart device.

Figure 5.- AC Cloud Control App.

After enabling the Bluetooth on the smart device, keep it close to the Access point and the AC Cloud Control to start the configuration process.

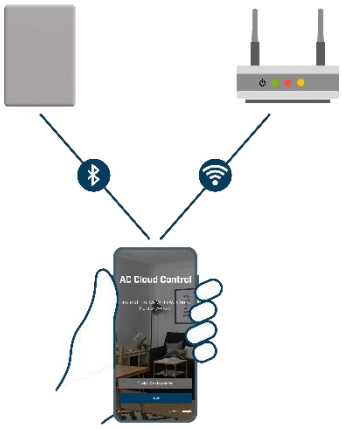

Figure 6.- Getting started.

IMPORTANT: Note that a weak signal might lead the AC Cloud Control to intermittent disconnections. If you don't have enough signal strength, keep the smart device close to the router.

2. AC Cloud Control device

Description

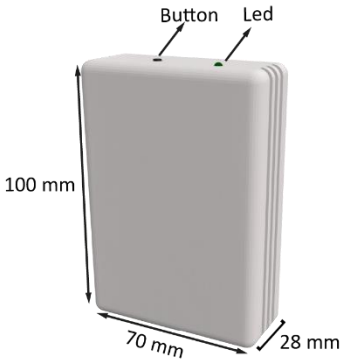

Figure 7.- AC Cloud Control device

AC Cloud Control button

To know the functionality of this button, see *Shortcuts section*.

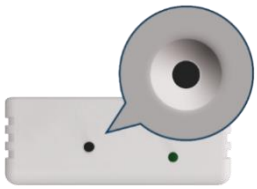

Figure 8.- AC Cloud Control toggle button.

3. Linking the AC Cloud Control to the Wi-Fi

There are two ways to start the configuration of the AC Cloud Control:

a) **If you are not logged into the App:** Tap on **Device configuration** on the App main screen.

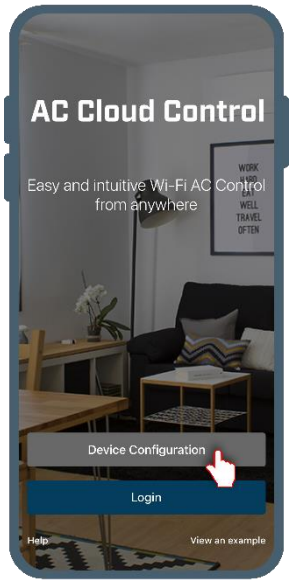

Figure 9.- AC Cloud Control App - main screen.

b) If you are already logged in: Go to **Settings** and select the **AC Cloud Control+** icon.

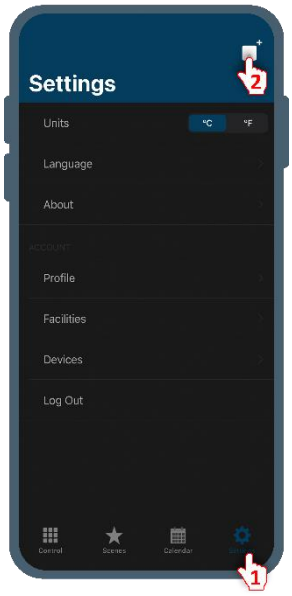

Figure 10.- AC Cloud Control App - settings menu.

IMPORTANT: This configuration guide applies to AC Cloud Control device with the order code INWIFIXXX001**R1**XX. For different order codes, see the *Device Configuration manual*.

The App will show you instructions to prepare the configuration. Be sure that the AC Cloud Control is in configuration mode (LED steady green).
Then, select **Bluetooth**.

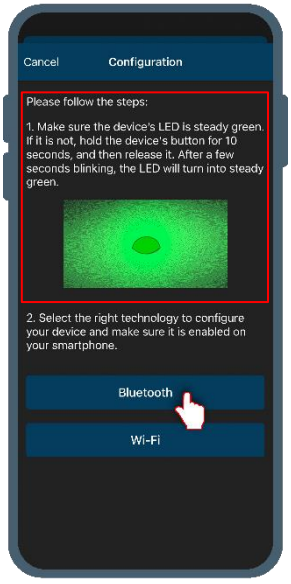

Figure 11.- Wi-Fi configuration - Bluetooth.

AC Cloud Control devices are shown in the **SCANNED** list, select the one to configure. If you are not sure which AC Cloud Control you are linking, check the last 6 digits of the MAC address, then select the correct one to proceed.

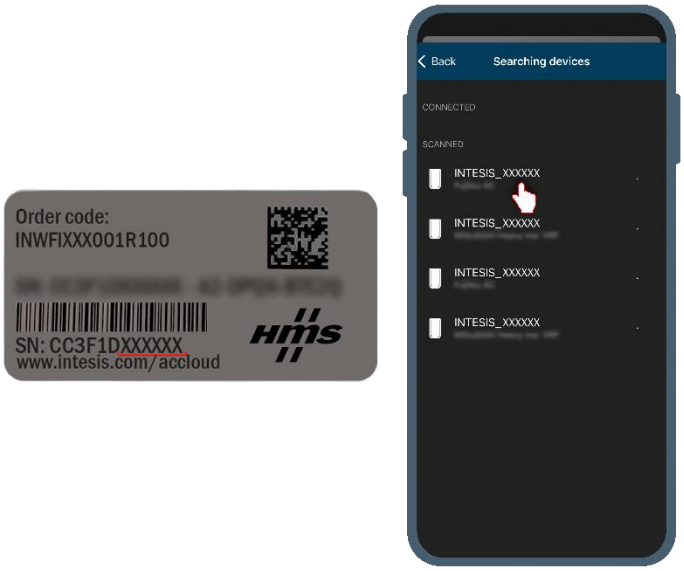

Figure 12.- AC Cloud Control selection.

Accept the Bluetooth paring request.

IMPORTANT: If the Bluetooth is disabled, a message will pop-up asking you to enable it.

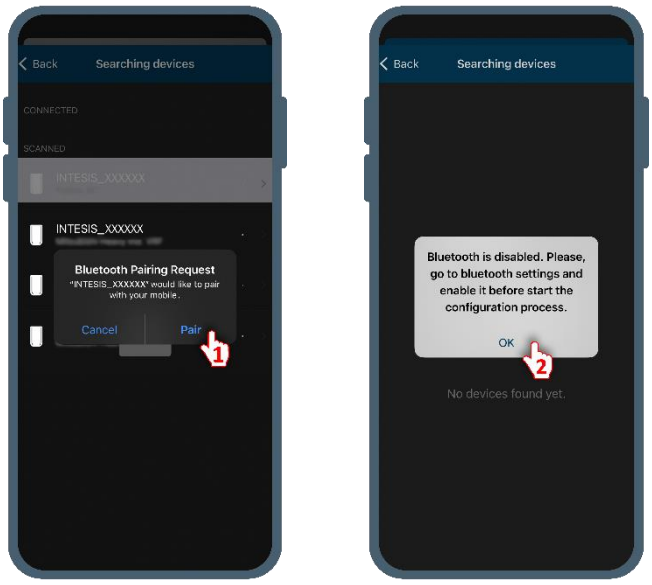

Figure 13.- Bluetooth pairing request and signal error.

When having multiple AC Cloud Control devices on the installation, you can easily recognize them by tapping on **Identify INTESIS_XXXXXX**[1]. The LED will blink white, and a message will pop-up.

[1] Being XXXXXX the last 6 digits of the AC Cloud Control MAC address.

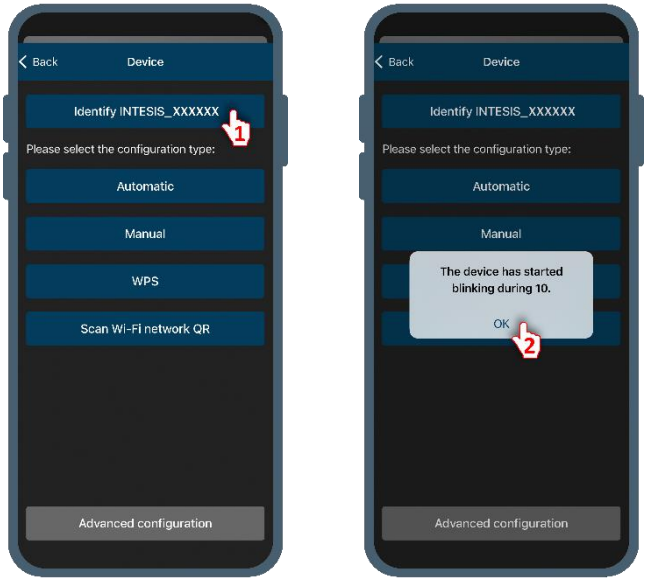

Figure 14.- Identifying the AC Cloud Control.

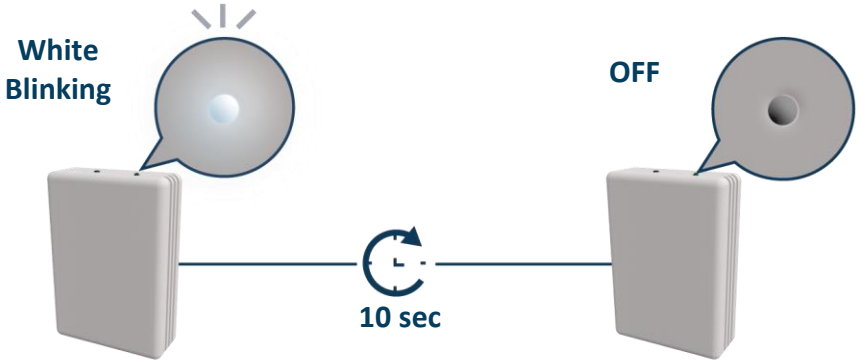

Figure 15.- The AC Cloud Control is identified.

4. Connection to the Wi-Fi network

There are different options to link the AC Cloud Control to a Wi-Fi network:

Automatic

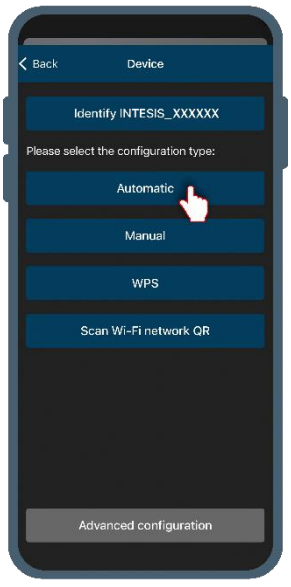

Figure 16.- Configuration screen.

Select the Wi-Fi network SSID from the list to link the AC Cloud Control, fill in the password and **Connect**.

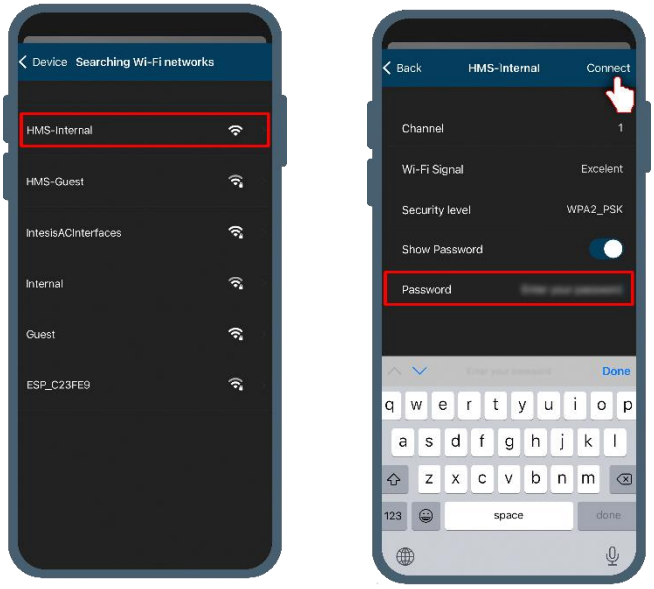

Figure 17.- Wi-Fi Network selection

The AC Cloud Control will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

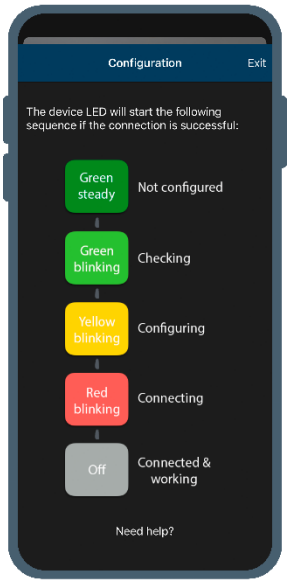

Figure 18.- Lighting Wi-Fi Configuration sequence.

IMPORTANT: When the LED turns off, the configuration process has been successfully completed.

If any error occurs during the configuration process, the LED will keep blinking. See the *LED color code during Wi-Fi configuration table*.

Manual

Select **Manual**, type the Wi-Fi network's **SSID** and **Connect**.

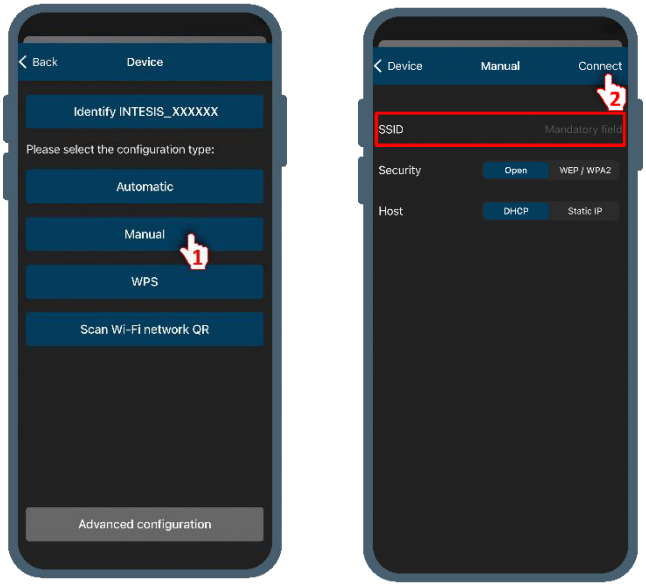

Figure 19.- Manual Wi-Fi configuration

If you are using **Security WEP/WAP2** or **Host Static IP**, fill in the mandatory and tap the **Connect** button.

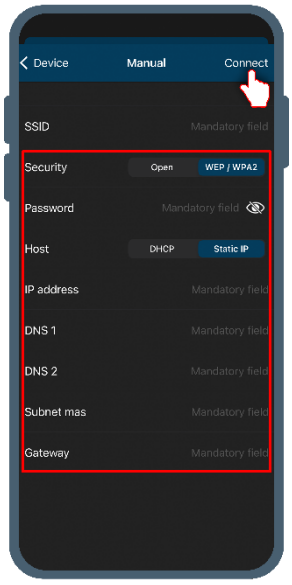

Figure 20.- Security WEP/WAP2 or Host Static IP.

The AC Cloud Control will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly. For more details, see *Figure 18*.

IMPORTANT: Important: When the LED turns off, the configuration process has been successfully completed.

If any error occurs during the configuration process, the LED will keep blinking. See the *LED color code during Wi-Fi configuration table*.

WPS

The AC Cloud Control can be configured using WPS by selecting **WPS option** and then **Connect**.

The AC Cloud Control can be set on WPS mode using the AC Cloud Control button as described in *WPS mode activation*.

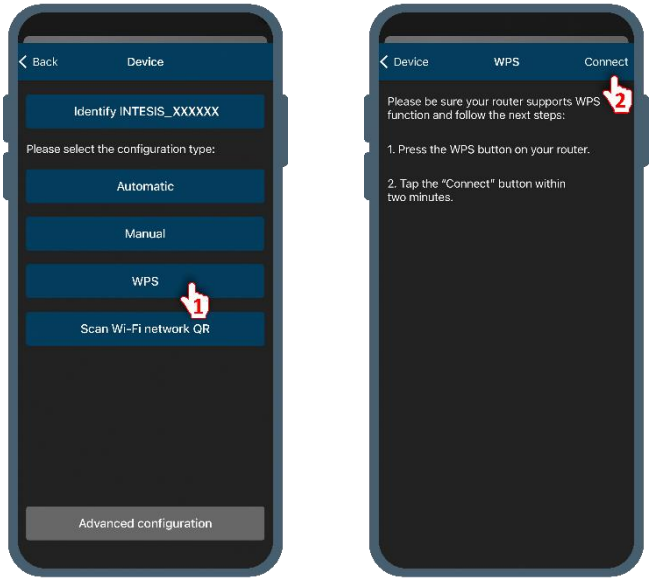

Figure 21.- WPS Wi-Fi configuration.

The LED will blink blue for two minutes, during that time you must press the WPS button on your Access point.

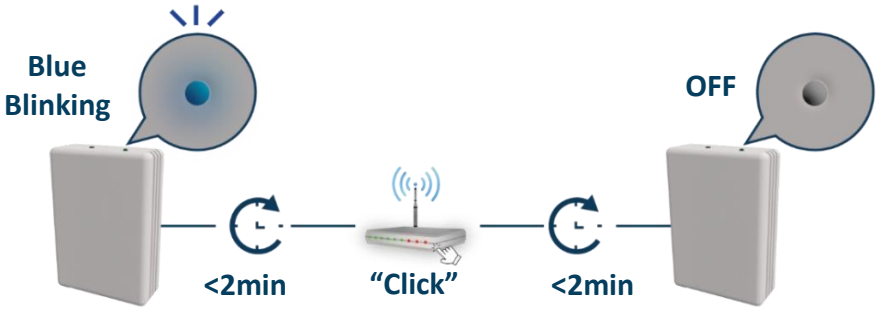

Figure 22.- WPS configuration LED feedback.

The AC Cloud Control will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly:

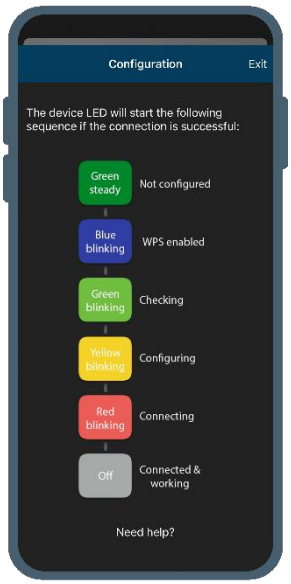

Figure 23.- Lighting Wi-Fi Configuration sequence WPS mode.

Important: When the LED turns off, the configuration process has been successfully completed.

If any error occurs during the configuration process, the LED will keep blinking. See the *LED color code during Wi-Fi configuration table*.

Scan a Wi-Fi network QR code

Tap on **Scan Wi-Fi network QR** and aim your smart device camera to the QR code. You must scan a QR code generated with the correct access credentials, otherwise the Wi-Fi access will not be granted.

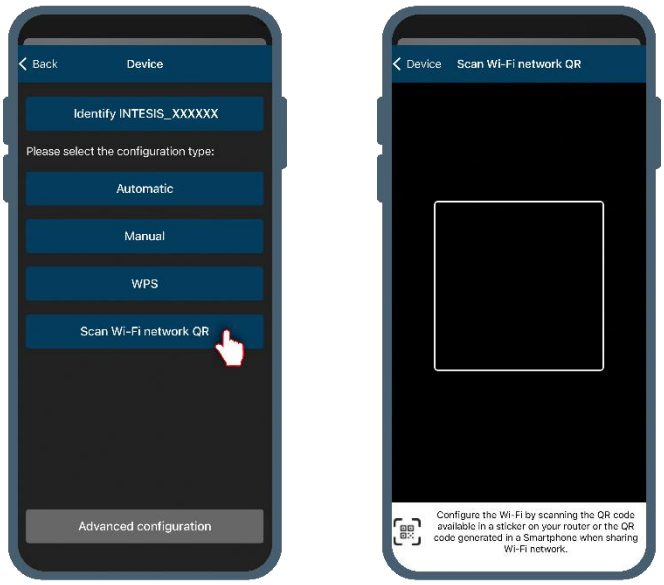

Figure 24.- Scan a Wi-Fi network QR code

The AC Cloud Control will connect to the cloud server. Depending on the communication phase, the LED will blink accordingly. For more details, see *Figure 18*.

Important: When the LED turns off, the configuration process has been successfully completed.

If any error occurs during the configuration process, the LED will keep blinking. See the *LED color code during Wi-Fi configuration table*.

Advanced Configuration

The AC Cloud Control can be configured in 3 different RF Modes:

- USA: 2412 – 2462 MHz (11 channels)
- Europe: 2412 – 2472 MHz (13 channels)
- Japan: 2412 – 2484 MHz (14 channels)

The factory settings are set to work in the most restrictive mode, USA: 2412 – 2462 MHz. Therefore, if you don't change any of these parameters, the AC Cloud Control is compliant with the most restrictive RF regulations.

Tap on **Advanced configuration** to select the domain **Region** where the AC Cloud Control is located and **Save**.

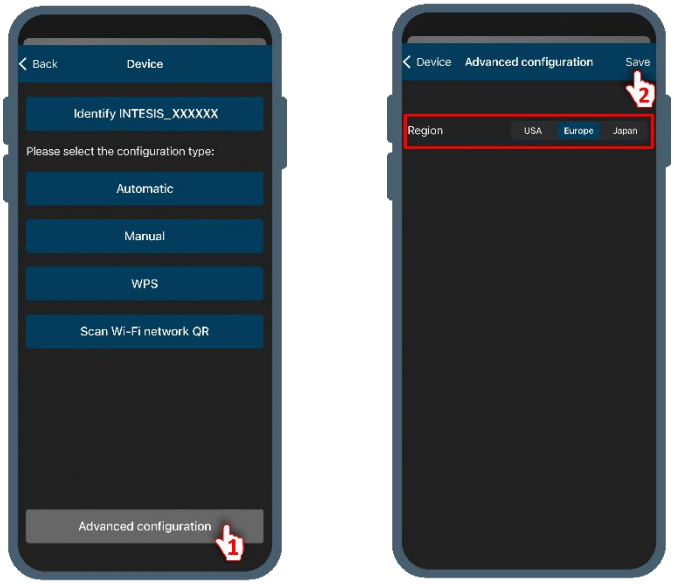

Figure 25.- Domain region configuration

A warning message will pop-up when selecting the wrong domain region.

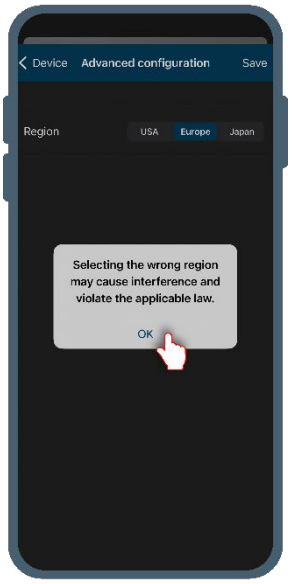

Figure 26.- Domain region configuration warning.

5. LED color code

The AC Cloud Control uses the LED to provide feedback about its status and possible errors.

LED color code during the Wi-Fi configuration

LED Color (s)	Behavior	Description
Blue	Blinking	Performing WPS connection (up to 2 min)
White	Blinking	Identifying the AC Cloud Control
Green	Steady	Not configured
Green	Blinking	Checking the AC Cloud Control configuration parameter values (up to 2 min)
Red	Blinking	Connecting to the Access point and server (up to 2 min)
Yellow	Blinking	Downloading configuration (up to 2 min)
Red - Green	Alternate blinking	Error Connecting to the Access point or router. Try to connect again and make sure you write the correct password.
Yellow - Green	Alternate blinking	Server not reached. Check if there is Internet connectivity on your Access point or router.

6. Shortcuts

This section will describe the AC Cloud Control button which enables a fast and easy configuration, at the same time describes troubleshooting tips.

Reset the Wi-Fi settings or enable the configuration mode

Press and hold the button for 10 seconds, then release it. The LED will blink green, after 10 seconds it will turn steady green, meaning the process is completed and the AC Cloud Control is in configuration mode.

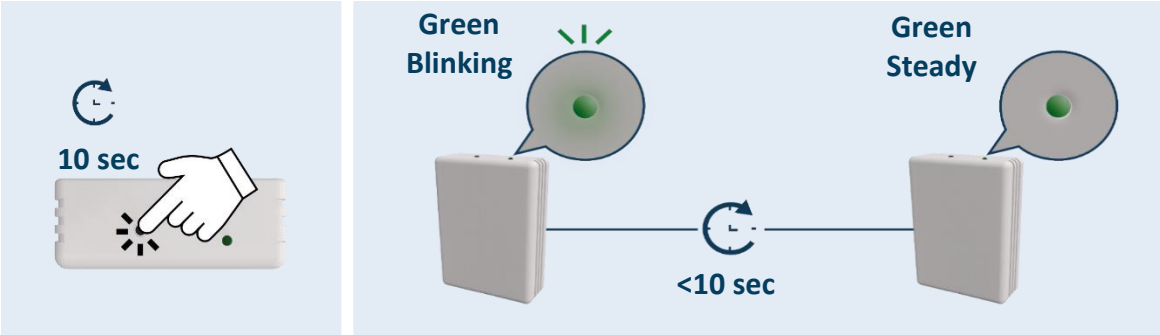

Figure 27.- Reset Wi-Fi settings or enabling configuration mode.

WPS mode activation

Check that your AC Cloud Control is in configuration mode (steady green LED). Press the toggle button, and the LED will blink blue.

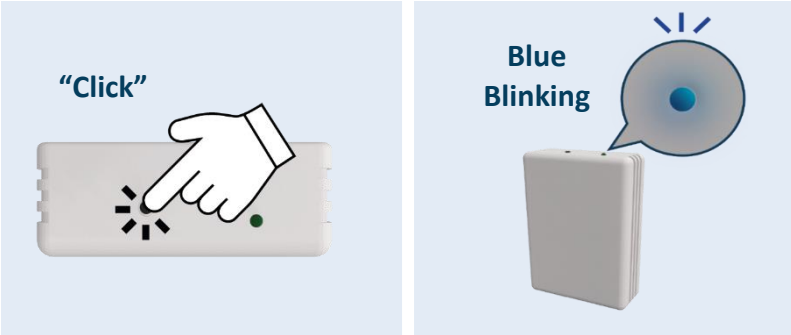

Figure 28.- WPS mode activation - shortcut.

Clean the AC Cloud Control devices list when using the Android App

When using Android smart devices, once an AC Cloud Control is paired, it will always appear in the Connected devices list. Having several AC Cloud control devices listed will make it hard to identify a specific one.

If you want to clean it, go to the smart device Bluetooth settings, and **forget** the AC Cloud Control.