AC Cloud Control

Device Configuration
Important User Information

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1. Description

1.1 Introduction

AC Cloud Control is the perfect IoT solution for professional AC management. It has been developed along with the mayor AC manufacturers and offers the possibility to control almost any domestic, commercial or VRF AC unit in the market from a generic dashboard available for Android, iOS or in any web browser.

The AC Cloud Control system offers many functionalities covering different needs like energy saving and air conditioner maintenance just to name some of them. All these functionalities make the product the best professional solution for offices, stores, schools or any other commercial building.

![Figure 1.1 AC Cloud integration.](image)

1.2 About this document

This document describes how to configure the AC Cloud Control device. It contains the meaning of the feedback light from AC Cloud Control LED during the configuration process and working mode.

1.3 What is needed

In order to use AC Cloud Control system is needed, at least, the following:

- **AC Control device.**
  Before start using AC Cloud Control is needed to acquire (if the user hasn’t done yet) an AC Cloud Control device\(^1\). In addition, is necessary be close to it (See Figure 1.2)

\(^1\) AC Cloud Control devices can be purchased in your usual air conditioner or heat pump reseller center.
Figure 1.2 Get close to the device.

- **Make sure to buy the right device.**
  Remember that there are the Universal and the Band Specific Wi-Fi Controllers available for each manufacturer and type of climate system, check the compatibility.

- **Internet access**².
  The AC Cloud Control devices must be connected to internet using Wi-Fi, therefore make sure the Wi-Fi signal reaches the device location (See Figure 1.3).

Figure 1.3 Check Wi-Fi Signal.

- **Device with Internet access:**
  A device with internet access is needed (Smartphone or Tablet).

  Make sure the smartphone or tablet used is Android or iOS compatible.

  In addition, double check that the data is turned off and Wi-Fi is turned on.

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² Costs related with Internet access are not included in the AC Cloud Control price. Ask your Internet Service Provider about the associated costs of your Internet connection.
2. AC Cloud Control Button

AC Cloud Control devices have one unique button located in different places depending of the device Universal (See Figure 2.1), specific brand AC (See Figure 2.2) and specific brand RC (See Figure 2.3).

Figure 2.1 Universal’s button

Figure 2.2 AC’s button

Figure 2.3 RC’s button
2.1 Reset Wi-Fi settings

To reset the Wi-Fi information in an AC Cloud Control device is needed to hold the button for 10 seconds (See Figure 2.4), the light of the LED will blink in green after some seconds it will turn steady green (See Figure 2.5).

![Figure 2.4 Reset Wi-Fi procedure.](image)

![Figure 2.5 Reset LED feedback.](image)
2.2 WPS mode

Press one time the button to activate the WPS mode in the AC Cloud Control device (See Figure 2.6), the light of the LED will blink in blue (See Figure 2.7).

Figure 2.6 WPS mode.

Figure 2.7 WPS mode LED feedback.
2.3 Change Wi-Fi channel

Holding the button for 2 seconds to change the channel of the Wi-Fi network (See Figure 2.8), the light of the LED will blink in green and it will turn steady green (See Figure 2.9). The process can be repeated until reach the channel wanted.

![Figure 2.8 Change Wi-Fi channel procedure.](image)

![Figure 2.9 Change Wi-Fi channel LED feedback.](image)
2.4 Autolearning

Autolearning mode is used to pair the IR control of the Climatize system with the Universal AC Cloud Control device.

Note: The autolearning can be performed just with Universal AC Cloud Control devices.

To activate the Autolearning mode in the Universal device is needed to hold the button for 4 seconds (See Figure 2.10), the light of the LED will be steady white (See Figure 2.11).

Once the light is steady white, press the on/off button of the IR remote of the air conditioner machine pointing it to the universal device (See Figure 2.12), the light of it will blink green. If the Universal device recognized the IR remote successfully the light will turn steady green (See Figure 2.13). Otherwise, it will turn red (See Figure 2.14).
Figure 2.12 IR remote pointing to Universal device.

Figure 2.13 Autolearning performed successfully LED feedback.

Figure 2.14 Autolearning performed with not success LED feedback.
3. Configuration

Configuration of the AC Cloud Control device must be done through the AC Cloud Control app.

⚠️ **Note:** Make sure to reset the Wi-Fi configuration. Further information can be found in Section 2.1.

There are 2 ways to realize the procedure
1. Tap on **Device configuration** in the main page (See Figure 3.1).
2. Login, tapping on settings and in the white square (See Figure 3.2).

![Figure 3.1](ac_cloud_control_device_configuration.png) **Figure 3.1** Access to Configuration network device without login.

![Figure 3.2](settings_login.png) **Figure 3.2** Access to Configuration network device from settings login.
Go to Wi-Fi settings of your mobile or Table and select the network generated by AC Cloud Control device (See Figure 3.3). Tap on Next.
In case the user is not connected to the device network a pop-up window will be shown asking to connect to it. (See Figure 3.4).

The mode to configure the Wi-Fi network can be selected as preference. Further information about each mode configurations will be found at Section 3.3, Section 3.4 and Section 3.5.

Figure 3.3 Configuration network procedure.

Figure 3.4 Configuration network warning pop-up window.
If the configuration network has been carried out successfully the light of the LED will follow a light sequence (See Figure 3.5). Tap on Done.

Figure 3.5 LED configuration network sequence.
3.3 Automatic

1. Tap on **Automatic** (See Figure 3.6)

![Automatic configuration procedure.](image)

2. Tap on name of the network wanted (See Figure 3.7)

![Wi-Fi Network selection.](image)

3. Enter the password of the Wi-Fi network selected, to double check if the password entered is the correct one and tap on show password (See Figure 3.8). Tap on Connect.
If the configuration network has been carried out successfully the light of the LED will follow a light sequence (See Figure 3.5). To continue tap on done. In case the light of the LED does not follow the sequence or start lighting different, start the process from the beginning.
3.4 Manual

Tap on **Manual** (See Figure 3.9)

![Figure 3.9 Manual configuration procedure.](image)

- In case to select the security open, type the SSID of the Wi-Fi network wanted. (See Figure 3.10). Tap on **Connect**.

![Figure 3.10 Security Open.](image)

If the configuration network has been carried out successfully the light of the LED will follow a light sequence (See Figure 3.5). Tap on **Done**.

In case the light of the LED does not follow the sequence or start lighting different, start the process from the beginning.
• In case to select the security WEP/WAP2 type the SSID of the Wi-Fi network wanted. Also, type the password Wi-Fi network and to make sure is well entered slide Show password selector (See Figure 3.11). Tap on Connect.

![Figure 3.11 Security WEP/ WPA2.](image)

If the configuration network has been carried out successfully the light of the LED will follow a light sequence (See Figure 3.5). Tap on Done.

In case the light of the LED does not follow the sequence or start lighting different, start the process from the beginning.

In manual mode is an option for advanced configuration. (See Figure 3.10 and Figure 3.11). By default, it comes in option DHCP (See Figure 3.12). Tap on Save.

![Figure 3.12 Advanced options (DHCP).](image)

• In case to select Static IP, type the IP address, Subnet Mask and Getaway. (See Figure 3.13). Tap on Save.

![Figure 3.13 Advanced options (Static IP).](image)
3.5 WPS

There are 2 ways to start the WPS configuration procedure
1. Tap on WPS (See Figure 3.14).
2. Press one time the button to activate the WPS. Further information can be found at Section 2.2

![Figure 3.14 WPS configuration procedure.](image)

Follow the instructions in the screen shown (See Figure 3.15). Tap on Next.

![Figure 3.15 Instructions to perform WPS mode configuration.](image)
the light of the LED will blink blue, 2 minutes after the WPS button of the router had been pressed the light of the LED will be off (See Figure 3.16).

![Figure 3.16 Performing WPS configuration LED feedback.](image)

If the configuration network has been carried out successfully the light of the LED will follow a light sequence (See Figure 3.5). To continue tap on done.

In case the light of the LED blinks Magenta (See Figure 3.17), start the process from the beginning.

![Figure 3.17 Unsuccessful connection LED feedback.](image)
3.6 Settings

In settings the domain region where the AC Cloud Control device will work can be changed, also, if the installation has more than device and the user needs to identify which device is going to be configured it can be called.

Tap on **Settings** (See **Figure 3.18**)

![Figure 3.18 Settings configuration site.](image.png)

- To identify to which network AC Cloud Control device is connected the mobile or tablet tap on **Identify** (See **Figure 3.19**). the light of the LED will blink white for 6 seconds, then it will be off (See **Figure 3.20**).

![Figure 3.19 Settings AC Cloud control.](image.png)
• To change region, tap on the region wanted (See Figure 3.19). A pop-up will be shown telling that if the region is changed the configuration process must be started from the beginning (See Figure 3.21). Tap on OK. Tap on save (See Figure 3.19).

The light of the LED will blink green for 6 seconds, then it will turn steady green (See Figure 3.22)
4. LED status information

AC Cloud Control device has an external LED which uses to give the user a feedback to communicate the status of the device.

4.1 LED status during Wi-Fi configuration

<table>
<thead>
<tr>
<th>LED Color (s)</th>
<th>Behavior</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Blinking</td>
<td>Performing WPS connection (up to 2 min)</td>
</tr>
<tr>
<td>Magenta</td>
<td>Blink</td>
<td>WPS connection error</td>
</tr>
<tr>
<td>White</td>
<td>Blinking</td>
<td>Identifying AC Cloud Control Device</td>
</tr>
<tr>
<td>Green</td>
<td>Steady</td>
<td>Not configured</td>
</tr>
<tr>
<td>Green</td>
<td>Blinking</td>
<td>Checking device configuration parameter values (up to 2 min)</td>
</tr>
<tr>
<td>Red</td>
<td>Blinking</td>
<td>Connecting to access point and server (up to 2 min)</td>
</tr>
<tr>
<td>Yellow</td>
<td>Blinking</td>
<td>Downloading configuration. Wait (up to 2 min)</td>
</tr>
<tr>
<td>Red - Green</td>
<td>Alternate blinking</td>
<td>Error Connecting to Access point or router. Try to connect again and make sure you write the correct password.</td>
</tr>
<tr>
<td>Yellow - Green</td>
<td>Alternate blinking</td>
<td>Server not reached. Check if there is Internet connectivity on your Access Point or router.</td>
</tr>
</tbody>
</table>

4.2 LED status during IR configuration (Autolearning mode)

**Note:** The autolearning can be performed just with Universal AC Cloud Control devices.

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Behavior</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Steady</td>
<td>Waiting customer pressing the On/Off button of the IR remote controller (up to 20 seconds)</td>
</tr>
<tr>
<td>Green</td>
<td>Blinking</td>
<td>The IR remote controller has been linked as expected with the AC Cloud Control device</td>
</tr>
<tr>
<td>Red</td>
<td>Blinking</td>
<td>The IR remote controller has NOT been linked as expected with the AC Cloud Control device</td>
</tr>
</tbody>
</table>
## 4.3 LED status during working mode

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Behavior</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td></td>
<td>AC Cloud Control device not powered or AC Cloud Control device working, and the AC unit is Off.</td>
</tr>
<tr>
<td>Blue</td>
<td>Steady</td>
<td>Indoor Unit ON working in Cool or Dry mode</td>
</tr>
<tr>
<td>Red</td>
<td>Steady</td>
<td>Indoor Unit ON working in Heat mode</td>
</tr>
<tr>
<td>Green</td>
<td>Steady</td>
<td>Indoor Unit ON working in Fan mode</td>
</tr>
<tr>
<td>Yellow</td>
<td>Steady</td>
<td>Indoor Unit ON working in Auto mode</td>
</tr>
<tr>
<td>Cyan</td>
<td>Steady</td>
<td>Indoor Unit working in anti-frost mode</td>
</tr>
<tr>
<td>Blue</td>
<td>3 blinks</td>
<td>Command received or sent during Cool or Dry mode</td>
</tr>
<tr>
<td>Red</td>
<td>3 blinks</td>
<td>Command received or sent during Heat mode</td>
</tr>
<tr>
<td>Green</td>
<td>3 blinks</td>
<td>Command received or sent during Fan mode</td>
</tr>
<tr>
<td>Yellow</td>
<td>3 blinks</td>
<td>Command received or sent during Auto mode</td>
</tr>
<tr>
<td>Cyan</td>
<td>Blinking</td>
<td>Command sent during anti-frost mode</td>
</tr>
<tr>
<td>Red</td>
<td>Blinking</td>
<td>AC Cloud Control device trying to connect to the Internet</td>
</tr>
</tbody>
</table>