Configuration of the IP addresses

APPLICATION NOTES

(M028E0501-03-14A)

CE

SAFETY PRECAUTIONS

Follow the warnings described in this manual with the symbols shown below.

	DANGER Warns of a risk, which could result in personal injury or material damage.

	WARNING Indicates that special attention should be paid to a specific point.

If you must handle the unit for its installation, start-up or maintenance, the following should be taken into consideration:

	Incorrect handling or installation of the unit may result in injury to personnel and/or damage to the unit. In particular, handling low voltages may result in electric shock, which may cause death or serious injury to personnel. Defective installation or maintenance may also lead to the risk of fire. Carefully read the manual prior to connecting the unit. Follow all the installation and maintenance instructions for the unit throughout its working life. Pay special attention to the installation standards of the National Electrical Code.

	Consult the instruction manual before using the unit Failure to follow the instructions marked with this symbol in the manual may cause injuries or damage to the unit and/or installations..

CIRCUTOR, SA reserves the right to modify features or the product manual without prior notification.

DISCLAIMER

CIRCUTOR, SA reserves the right to make modifications to the device or the unit specifications set out in this instruction manual without prior notice.

CIRCUTOR, SA, on its web site, supplies its customers with the latest versions of the device specifications and the most updated manuals.

www.circutor.com

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LOG OF REVISIONS

Table 1: Log of revisions.

Date	Revision	Description
11/14	M028E0501-03-14A	Original version

Note: The images of the units are solely for the purpose of illustration and may differ from the original unit.

1.- INTRODUCTION

The following descriptions cover the two most common methods for configuring an IP address for the **CDP**.

2.- ETHERNET CABLE CONNECTION BETWEEN THE CDP AND THE PC

The **CDP** and the PC must be connected via an Ethernet cable in order to communicate with both devices.

The Ethernet cable does not require any special features, as its purpose is to connect two devices with standard Ethernet ports.

This type of cable can be purchased at any computer supply store.

3.- IP ADDRESS CONFIGURATION

The IP address of the **CDP** can be static or dynamic:

- ✓ When programming a static address, use the **CDP** keyboard to enter the desired IP address for the unit (for example, 192.168.001.003).
- ✓ For dynamic addresses, the router in the installation automatically assigns an IP address to the **CDP**.

3.1.- CONFIGURATION OF A STATIC IP

Figure 1: Configuration of a static IP.

3.1.1. CONFIGURATION OF A STATIC IP IN THE CDP

Execute the following sequence on the **CDP** display to enter the Ethernet channel setup menu, **Figure 2**:

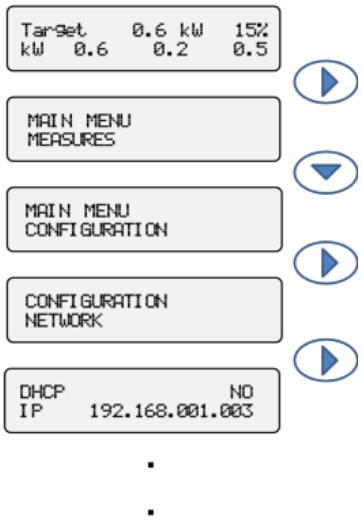

Figure 2: Accessing the Ethernet channel setup menu.

Figure 3 shows the set of screens comprising the configuration of the Ethernet communications channel.

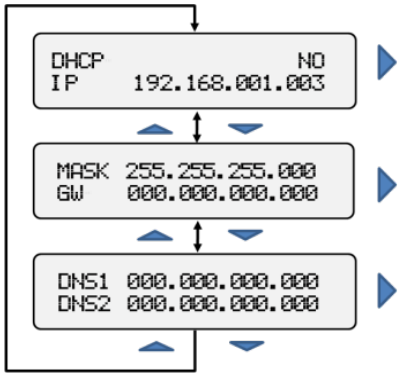

Figure 3: Ethernet channel setup menu.

The configured values can be changed by pressing the ► button. The first digit to be changed will start flashing.
Next use the ▲, ▼ and ► buttons to enter the IP, MAC, and Gateway (GW) addresses needed in our installation.

Press the ► button until you reach the last digit. At this moment none of the values on the screen will be flashing.

Press the OK button to return to the previous menu and continue pressing until you reach the last screen, on which the **CDP** will show a message on the screen asking the user if he wants to save the changes, **Figure 4**.

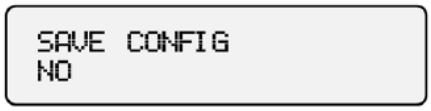

Figure 4: Screen for saving the configuration.

	The NO option is enabled by default. To save the changes, use the ▲ or ▼ buttons to change this parameter to YES and validate the option by pressing the OK button.

3.1.2. CONFIGURATION OF A STATIC IP IN THE PC

If using the Windows 7 operating system, enter the following in the start menu button:
"***see network connections***" and select this option as shown on the **Figure 5:**

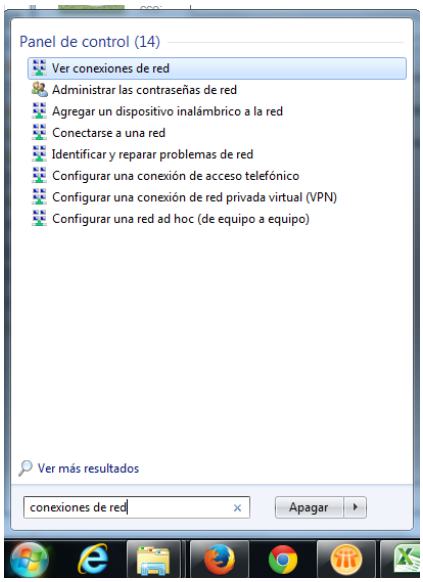

Figure 5: Configuration of a static IP in the PC (Step 1).

Next select "***Local area connection***" **Figure 6**.

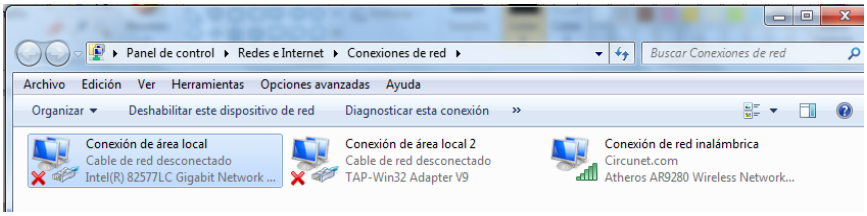

Figure 6: Configuration of a static IP in the PC (Step 2).

Select "***Internet Protocol version 4 (TCP/IPv4)***" and press the **Properties** button **Figure 7.**

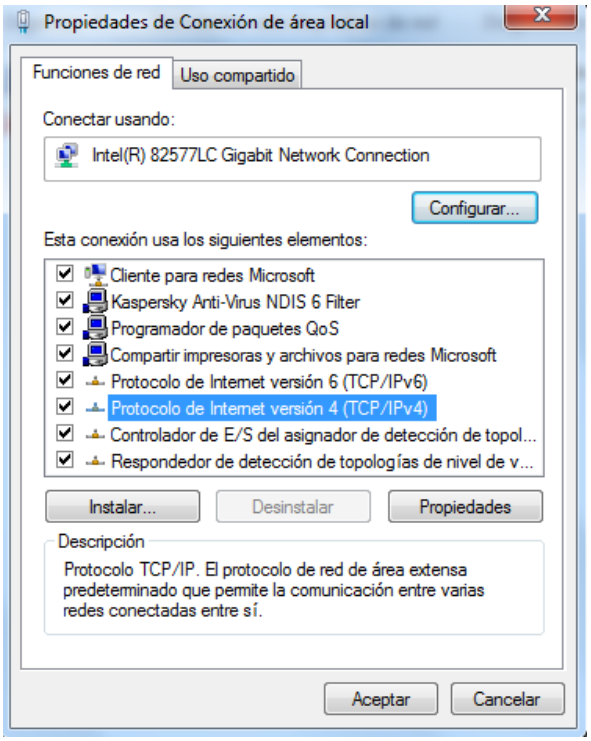

Figure 7: Configuration of a static IP in the PC (Step 3).

Enter the IP address shown in **Figure 8** and press **OK**. The PC now has this IP address.

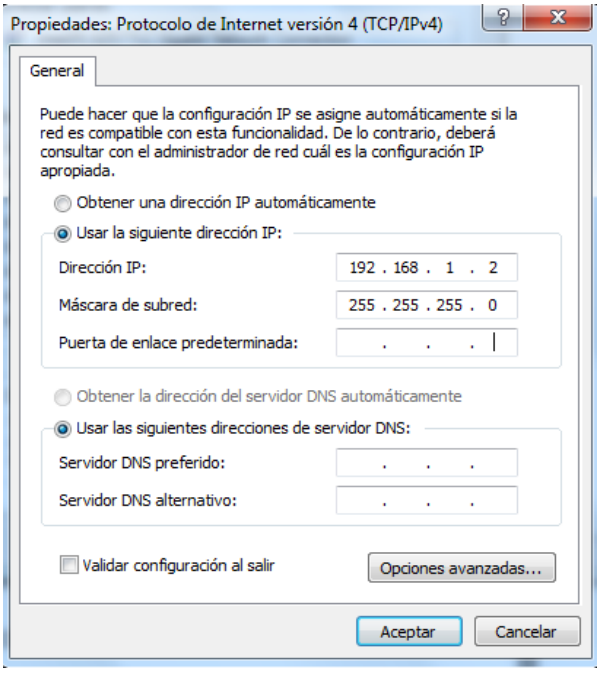

Figure 8: Configuration of a static IP in the PC (Step 4).

Now, to ensure the two units (**CDP** and PC) are communicating correctly, test by opening a web browser and typing the IP address of the **CDP** in the navigation bar (in this example 192.168.1.3)

If everything is correct, the web site of the **CDP** web server should open, **Figure 9.**

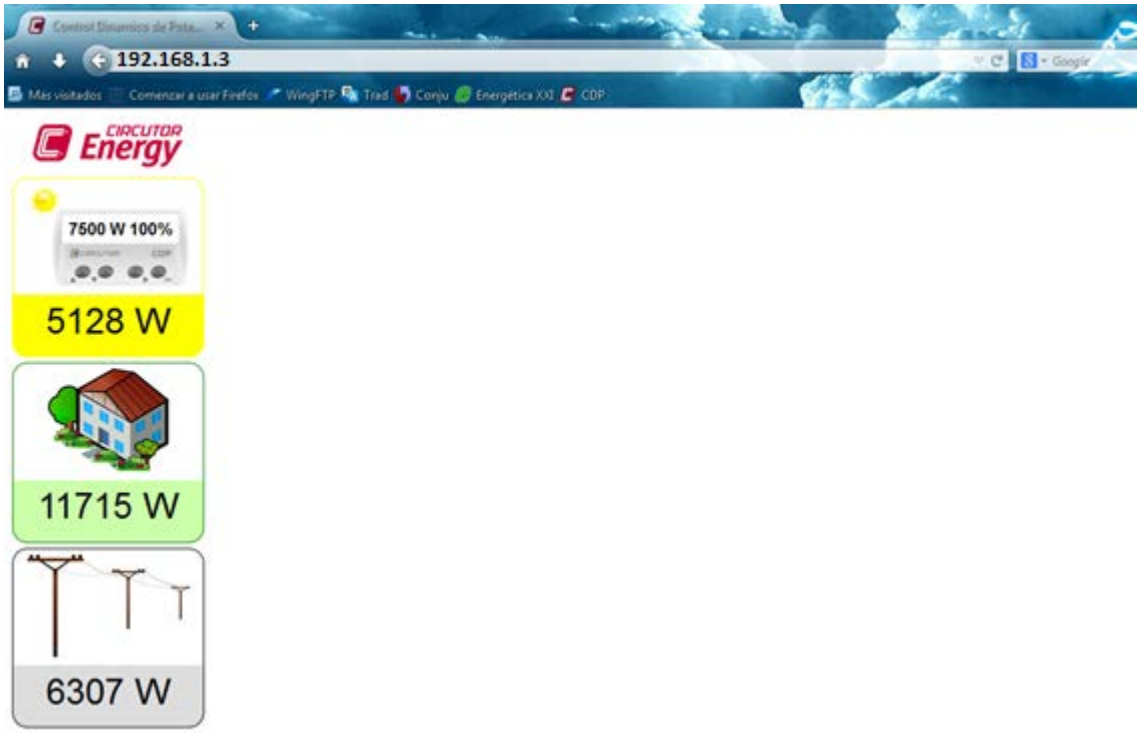

Figure 9: Configuration of a static IP in the PC (Step 5).

3.2.- CONFIGURATION OF A DYNAMIC IP

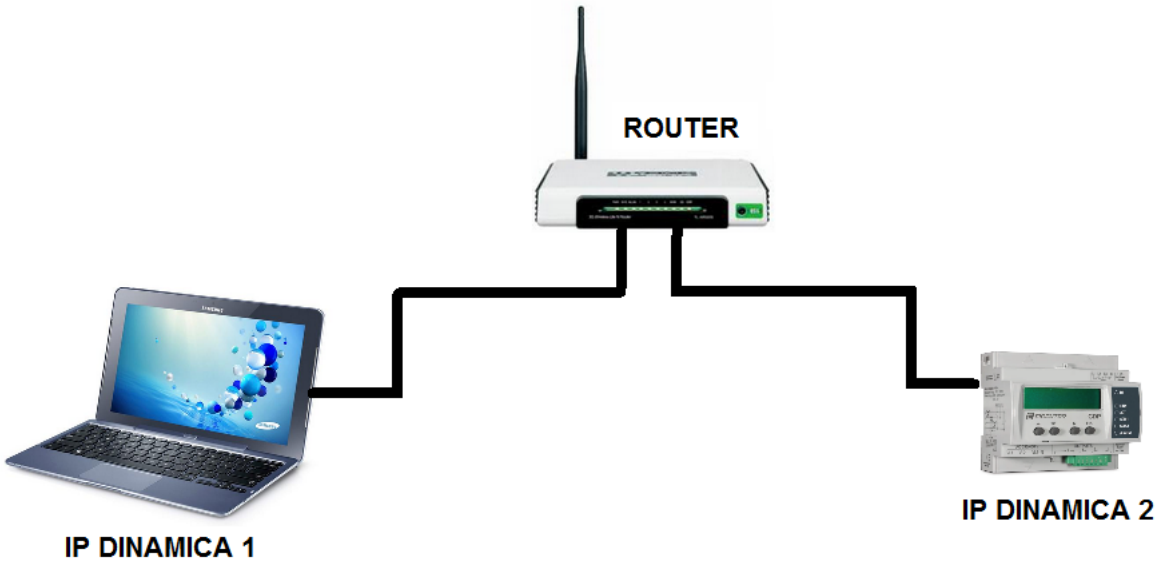

Figure 10: Configuration of a dynamic IP.

A dynamic IP is recommended if the **CDP** is going to be connected to a router with an internet connection shared by other devices.

3.2.1. CONFIGURATION OF A DYNAMIC IP IN THE CDP

To configure a dynamic IP, select "YES" on the "DHCP" option on the menu, which will enable the router to automatically assign an IP to the **CDP**.

Execute the following sequence on the **CDP** display to enter the Ethernet channel setup menu, **Figure 11**:

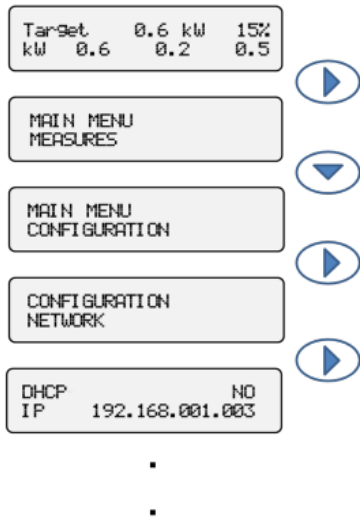

Figure 11: Accessing the Ethernet channel setup menu.

The set of screens comprising the configuration of the Ethernet communications channel can now be seen in **Figure 12**.

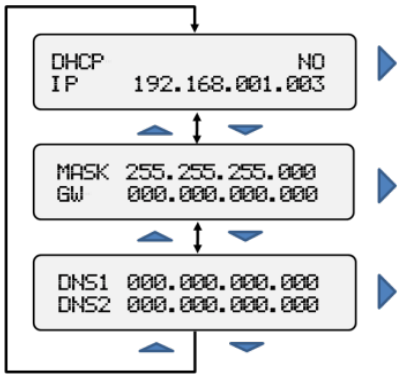

Figure 12: Ethernet channel setup menu.

After accessing the setup menu, the unit shows the DHCP literal on the screen with the default *NO* option. To change the option shown on the screen, press the ► button and the text will start flashing.

Press the ▲ or ▼ button; the *YES.* option will be displayed.

Once it is on the screen, press the OK button to validate.

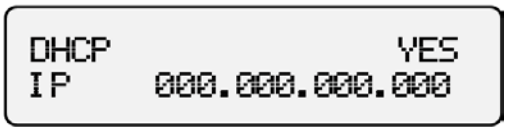

Figure 13: DHCP Configuration

Next the **CDP** screen shows the parameters assigned by the DHCP server, but they cannot be edited on this screen.

- **IP Configuration** : The second line shows the IP address that has been dynamically assigned.

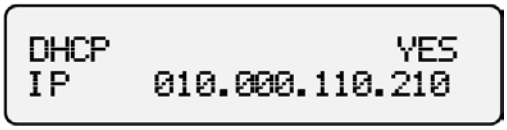

Figure 14: IP Configuration.

- **NetMask and Gateway:** The netmask is shown on the first line and the Gateway on the second.

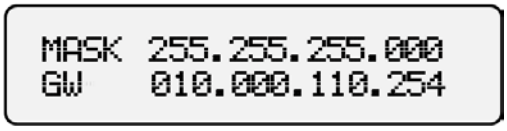

Figure 15: Configuration of the NetMask and the Gateway.

- **Primary DNP and Secondary DNS:** The preferred DNS server is shown on the first line and the alternative on the second.

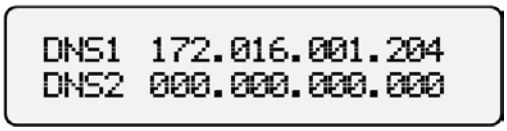

Figure 16: Configuration of the primary and secondary DNS.

3.2.2. CONFIGURATION OF A DYNAMIC IP IN THE PC

If using the Windows 7 operating system, enter the following in the start menu button:
"***see network connections***" and select this option as shown on the **Figure 17:**

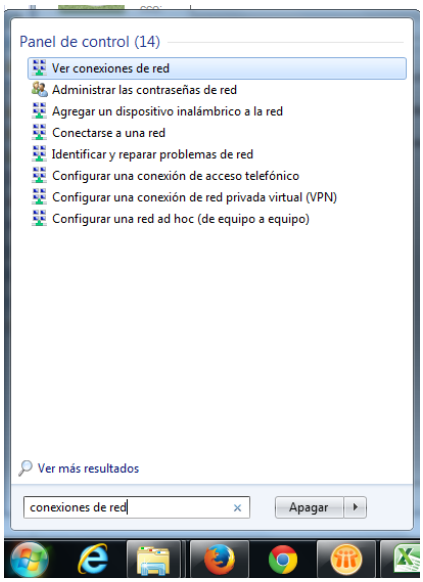

Figure 17: Configuration of a dynamic IP in the PC (Step 1).

Next select "***Local area connection***"**Figura 18**.

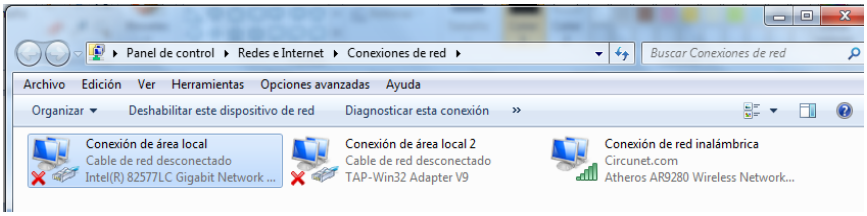

Figure 18: Configuration of a dynamic IP in the PC (Step 2).

Select "***Internet Protocol version 4 (TCP/IPv4)***" and press the **Properties** button **Figure 19.**

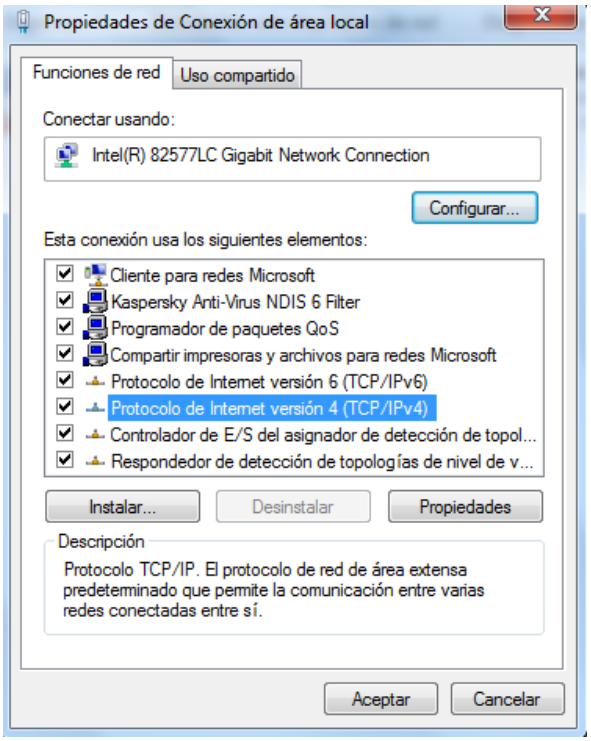

Figure 19: Configuration of a dynamic IP in the PC (Step 3).

Make sure the "***Obtain an IP address automatically***" option is selected **Figure 20**.

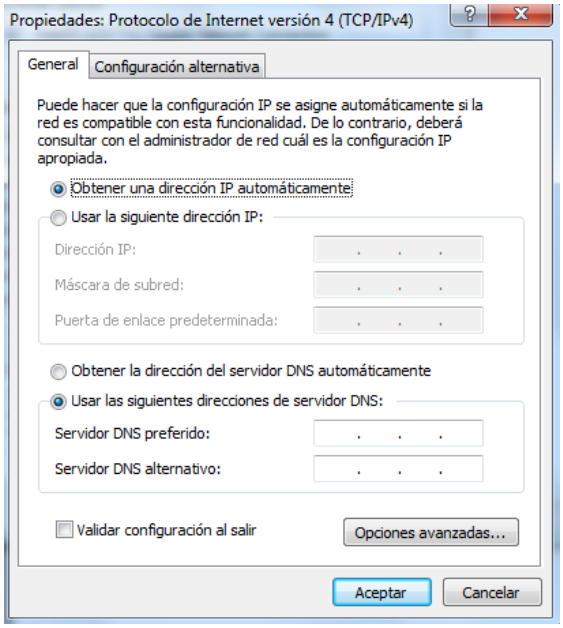

Figure 20: Configuration of a dynamic IP in the PC (Step 4).

Press "**OK**".
From now on, the PC will wait until the router automatically assigns it an IP address.

Now, to ensure the two units (**CDP** and PC) are communicating correctly, test by

opening a web browser and typing the IP address of the **CDP** in the navigation bar (in this example 10.0.110.212)

If everything is correct, the **CDP** web site of the web server should open **Figure 20.**

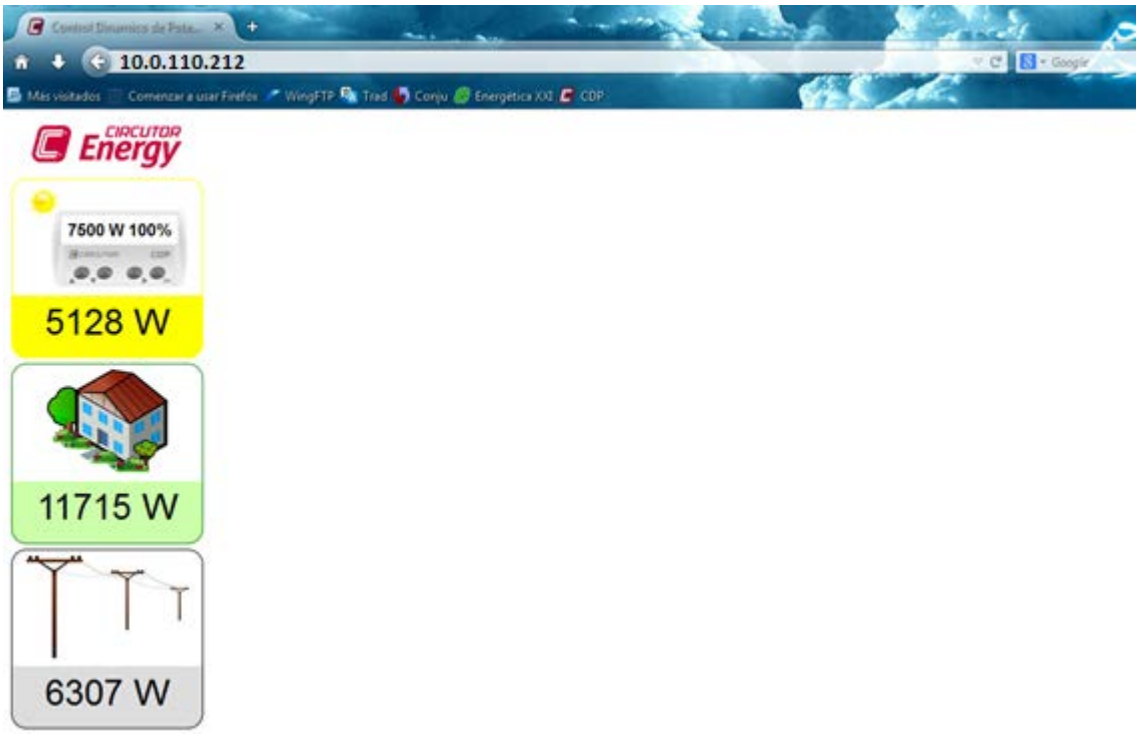

Figure 21: Configuration of a dynamic IP in the PC (Step 5).

⚠	**Consult the manual for more information on the configuration of the CDP.**

4.- MAINTENANCE AND TECHNICAL SERVICE

In the case of any query in relation to unit operation or malfunction, please contact the **CIRCUTOR, SA** Technical Assistance Service.

Technical Assistance Service
Vial Sant Jordi, s/n 08232 - Viladecavalls (Barcelona)
Tel.: 902 449 459 (Spain) / +34 937 452 900 (outside of Spain)
email: sat@circutor.es

5.- GUARANTEE

CIRCUTOR guarantees its products against any manufacturing defect for two years after the delivery of the units.

CIRCUTOR will repair or replace any defective factory product returned during the guarantee period.

- No returns will be accepted and no unit will be repaired or replaced if it is not accompanied by a report indicating the defect detected or the reason for the return.
- The guarantee will be void if the unit has been improperly used or the storage, installation and maintenance instructions listed in this manual have not been followed. "Improper usage" is defined as any operating or storage condition contrary to the National Electrical Code or that surpasses the limits indicated in the technical and environmental features of this manual.
- **CIRCUTOR** accepts no liability due to the possible damage to units or other parts of the installation, nor will it cover any possible sanctions derived from a possible failure, improper installation or "improper usage" of the unit. Consequently, this guarantee does not apply to failures occurring in the following cases:
  - Overvoltages and/or electrical disturbances in the supply;
  - Water, if the product does not have the appropriate IP classification;
  - Poor ventilation and/or excessive temperatures;
  - Improper installation and/or lack of maintenance;
  - Buyer repairs or modifications without the manufacturer's authorisation.

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