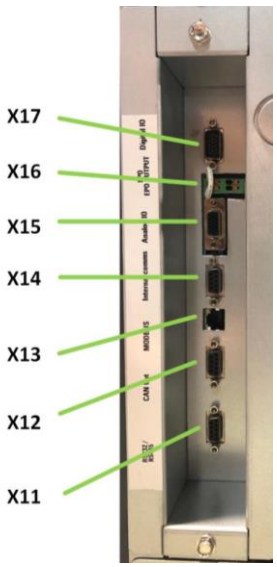
CONNECTING CINERGIA UNITS TO A PC

The standard communication interface of a CINERGIA unit is based on Ethernet communication layer and MODBUS/TCP or TCP/IP sockets protocol. Please ask for further information about the MODBUS protocol, Labview drivers or optional (RS485, RS232, CAN) communication interfaces if needed.

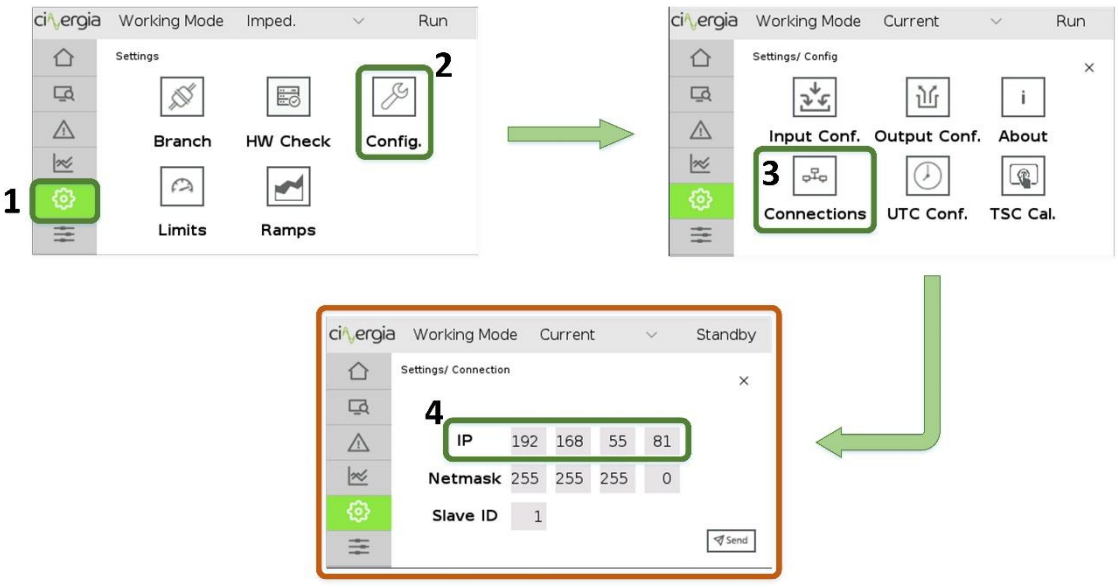
To control a CINERGIA unit from a remote interface please follow the points below:

1- Connect a standard RJ45 Ethernet cable to terminal **X13** as shown below:



The unit can be connected directly either to a computer or to a router (wired or wireless). If the CINERGIA unit is connected through a router, several computers could be connected to the unit at the same time.

2- Check the IP address of CINERGIA unit in the LCD Touchscreen pressing the following buttons:

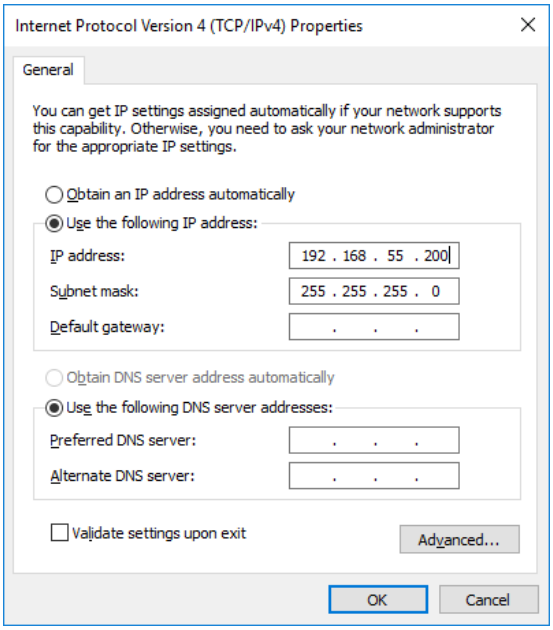


3- Check the computer's Ethernet configuration panel and make sure that both the computer and the CINERGIA unit are in the same subnetwork. For instance, if the CINERGIA unit IP address is 192.168.55.81 the computer Ethernet configuration shall be:

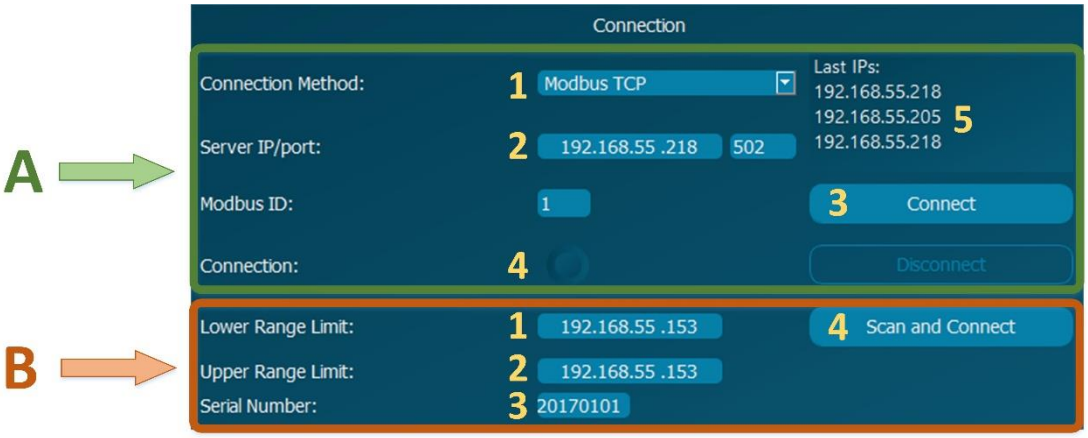
a. Computer IP address: 192.168.55.XXX (XXX can be any address different from 81 and different from any other device in the same network)
b. Subnet mask: 255.255.255.0
c. Gateway and DNS configuration are not needed for a connection with a CINERGIA unit

If the computer and CINERGIA unit are not in the same subnetwork the connection will fail.

As a reference, the configuration of a computer with Windows10 OS is shown. In the case below, the computer is connected directly to the CINERGIA unit so the IP address must be set manually:



4- Run the graphical user interface delivered by CINERGIA, write the IP address of the unit to be connected and press the *Connect* button after introducing the corresponding parameters:



There are two different ways to connect the unit to the PC via Modbus TCP:

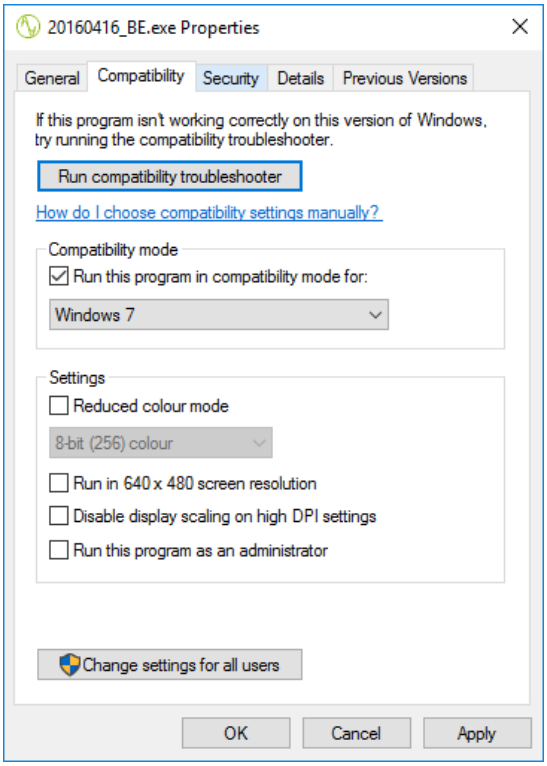
A- Known the IP address of the equipment. This IP address is displayed in the LCD touchscreen as it is explained in the point **2**.

1- Define the connection (Modbus TCP)
2- Introduce the IP address
3- Press *Connect*
4- Once the equipment is connected, the LED will indicate it
5- There is a register of 3 IPs which the interface has connected to the equipment

B- Known the serial number of the equipment and the range of IPs that the equipment is located. The serial number is written in the front of the equipment with the specification data. If the equipment has a serial number such as 20170101-1, the number to introduce must be without the hyphen: 201701011. This method is useful when the user, for example, does not know the exact IP of the equipment but knows that the range of IPs is, for example, from 192.168.55.150 to 192.168.55.250

1- Introduce the lower IP range
2- Introduce the upper IP range
3- Introduce the serial number (without hyphen)
4- Press *Scan and Connect*. It may last a few seconds to scan all the IPs

Important: If there is an error when trying to run CINERGIA application please check the compatibility mode of your computer. For instance, in a Windows 7 computer, right click CINERGIA application → *Properties*; go to *Compatibility* panel and check the box *Run this program in compatibility mode*; and select the operating system of your computer. For instance, for a Windows 7 computer:



There is an optional which is to connect the CNG unit using series connection (RS485, RS232) or CAN protocol, but it has an additional cost.

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Please, don't hesitate to contact on support@cinergia.coop in case of any doubt or question.