# The ecoNET300 WiFi testing procedure

To test whether the ecoNET300 WiFi feature is operational and check whether the desired Wireless network is available on the place of the ecoNET300 installation a smartphone with an ability to create hotspot is needed (tested under android 5.0 and 6.0). Step by step instruction below:

1. Start from creating a hotspot. Hotspot settings are both available via top folding notification panel or via settings. Touch hotspot icon for few seconds to open hotspot settings. Then choose "set up WiFi hotspot".
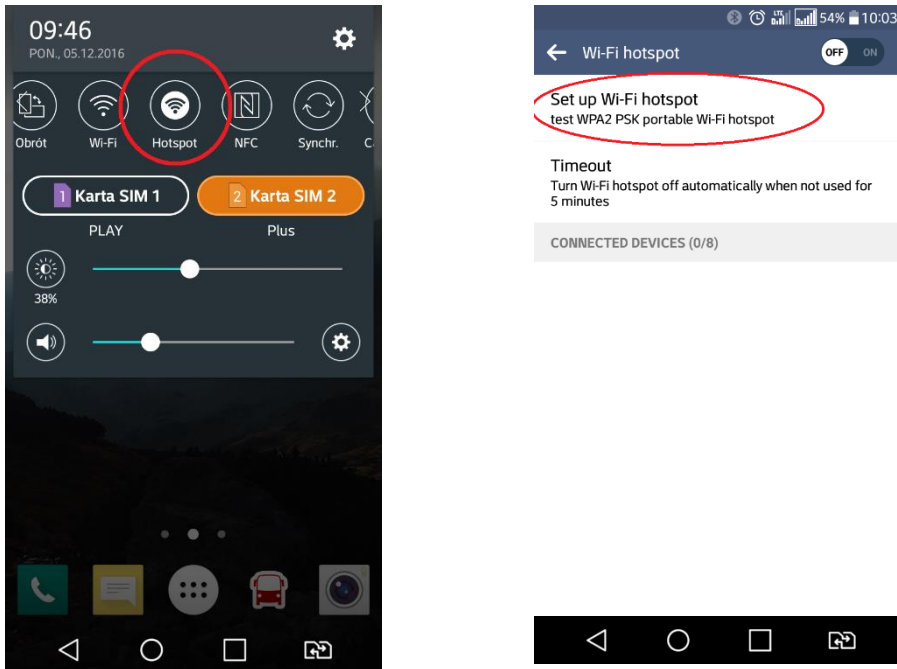
2. Name WiFi network you're going to create (it's SSID), as well as choose protection type (WPA2-PSK recommended), as well as type a password. I recommend to use simple names and passwords such as shown on the screens. It will make the whole test simply easier. Finish creation of the WiFi hotspot by clicking "save" button and turn on the hotspot. **By default hotspot turns off after 5 minutes if it is not used**. Remember about that when you have problems with connecting to created hotspot and always check whether it remains active.
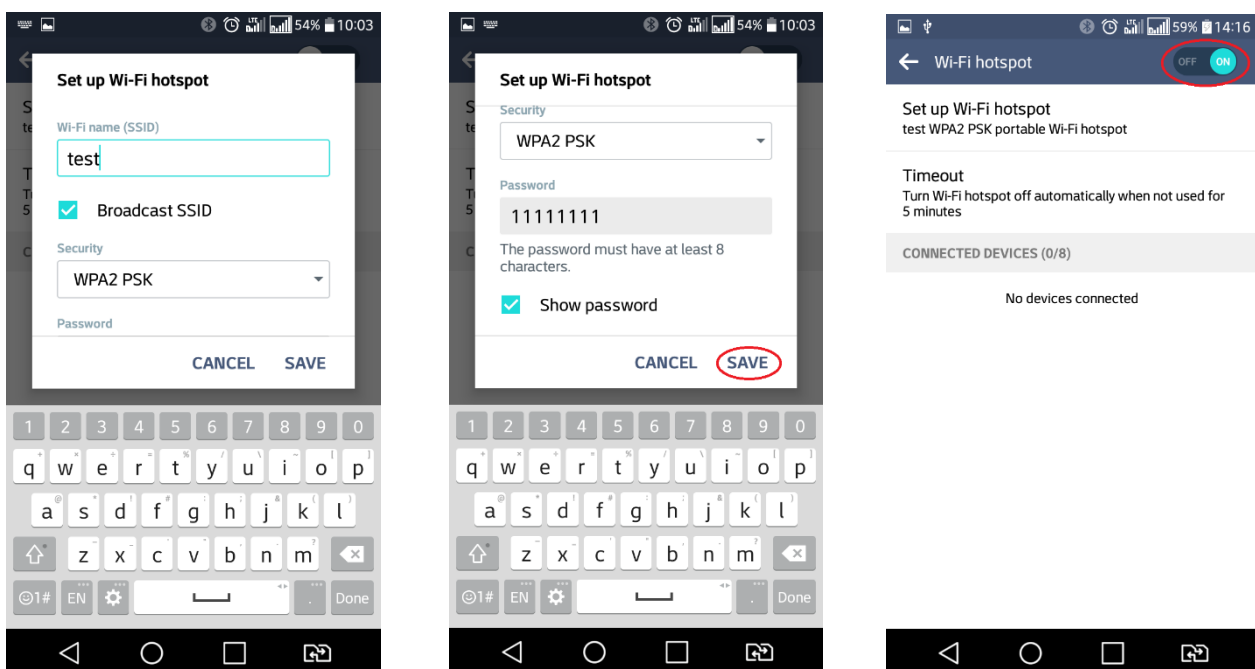
3. Now it's time to go to the controller. Make sure that ecoNET300 is properly connected and detected by the controller (2nd diode from the top on the ecoNET300 housing should be lighten). Go Menu -> General settings -> Wifi. Enter the SSID, Protection type and password in exactly that order. Remember that when you're entering the SSID and password you have to confirm it at the end by choosing "enter" sign show below.
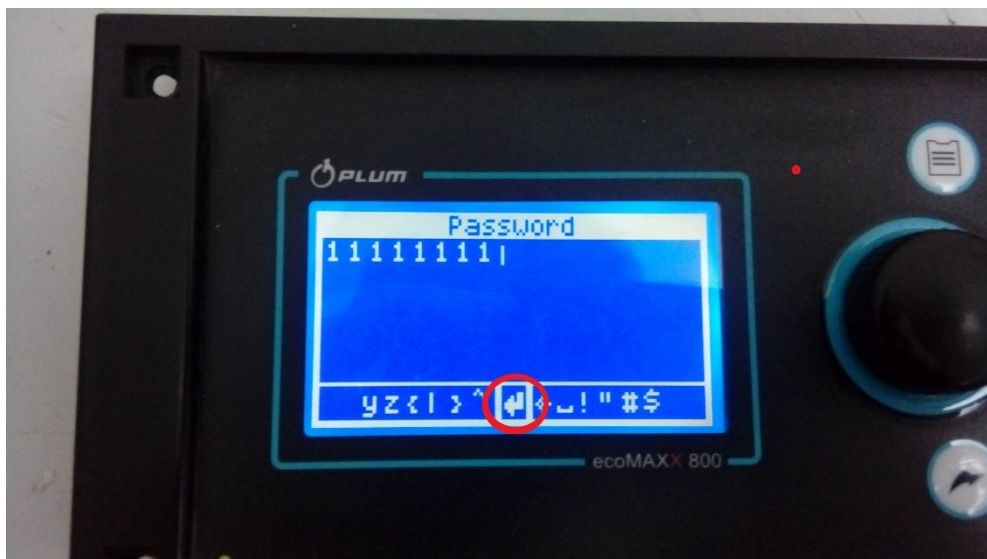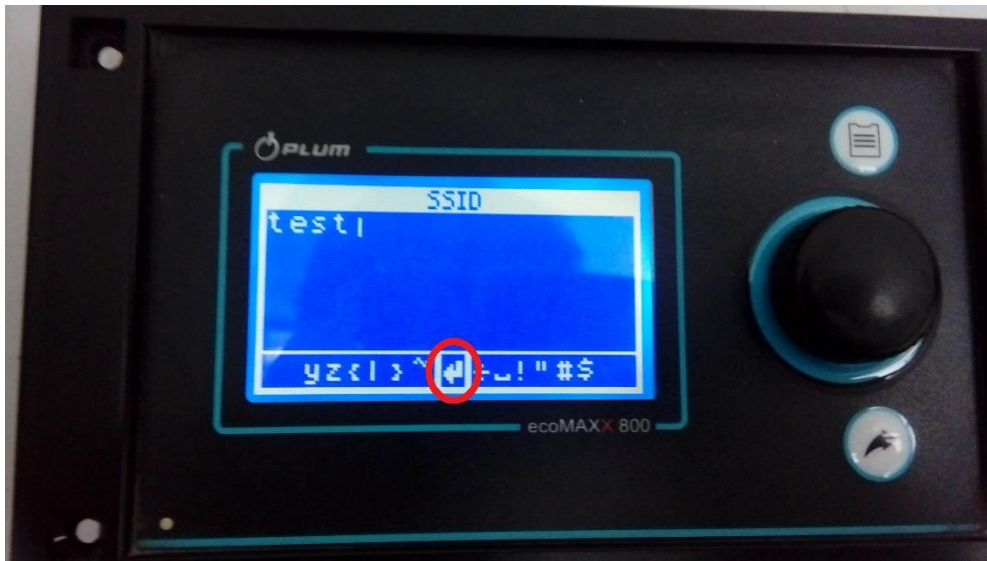
4. After few minutes (1-2 minutes) the ecoNET300 should connect to the WiFi network created by the smartphone, what is indicated on both controller and smartphone. If it doesn't connect – make sure that hotspot is still active and you properly entered SSID, protection type and password. Try to repeat the point 3. If the ecoNET300 does not connect to your WiFi network – we can assume that ecoNET300 module is damaged **(or there's some problem with the hotspot, before assuming that ecoNET300 is damaged check whether your hotspot is operating properly. If few modules in a row does not connect to your WiFi network – surely it is a problem with the hotspot)**. However, if the ecoNET300 connects to your WiFi network – we now know that WiFi module works properly. We can go further to check if the desired WiFi network is available at the place of the ecoNET300 installation and even connect to it.

# Checking the availability of the desired WiFi network and connecting to it

5. On both phone and controller we can read the IP that was assigned to the ecoNET300 module. We will use that IP to connect to the ecoNET300 module via LAN.
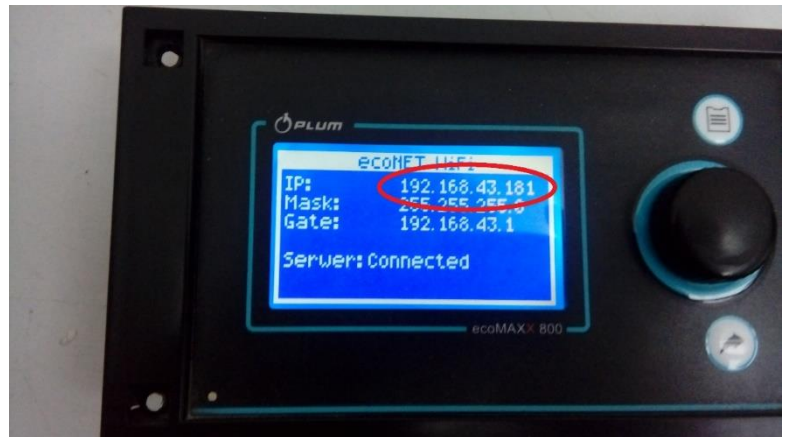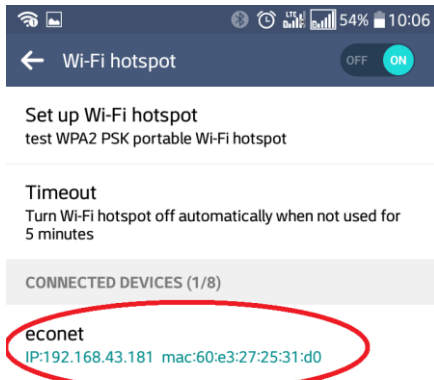

6. On the smartphone open an web browser (e.g. google chrome) and in the URL box type the IP shown on the controller or on the phone (both are the same). The window asking for login and password pops up. By default it is admin/admin. After few seconds after accepting login data we are connected to the ecoNET via LAN. In case that default user name and password is not accepted – restore default settings of the ecoNET300 module by pressing for 10 seconds reset button (placed below 4 LEDs on the ecoNET300 housing). If you had to restore defaults, you have to start again from point 3.
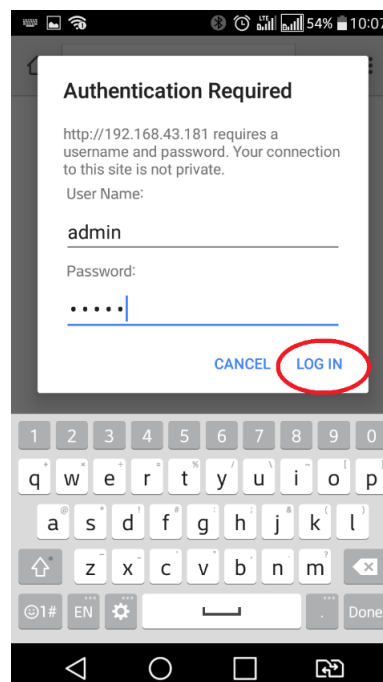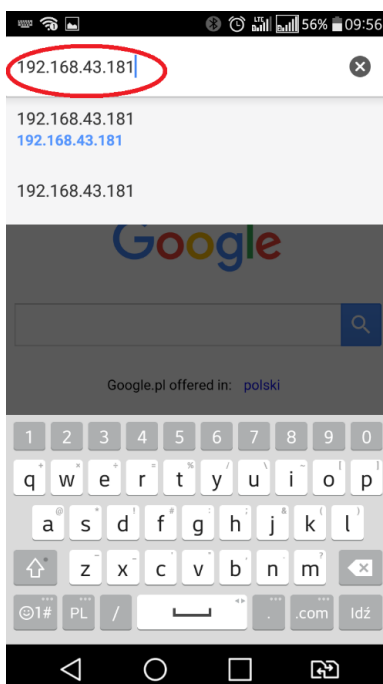
6. When the ecoNET website appears tap menu and choose settings. Then select "Wifi setup" button. The WiFi setup window pops up. Only part of the button is visible, but it is a "Refresh" button - press it and wait a while.
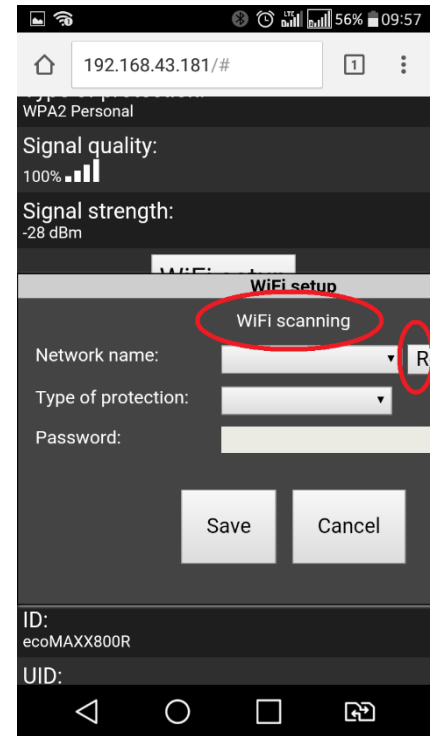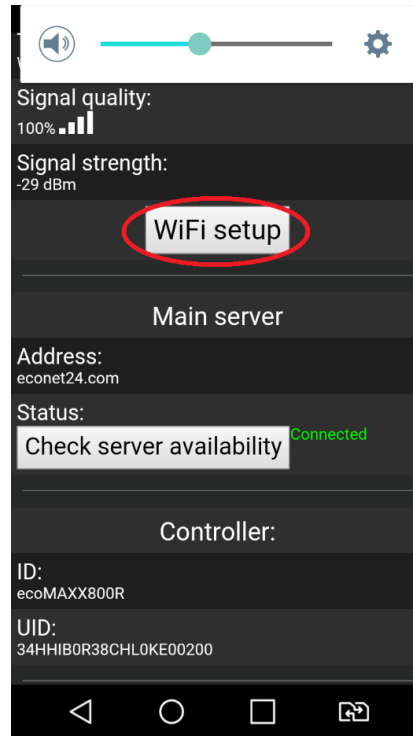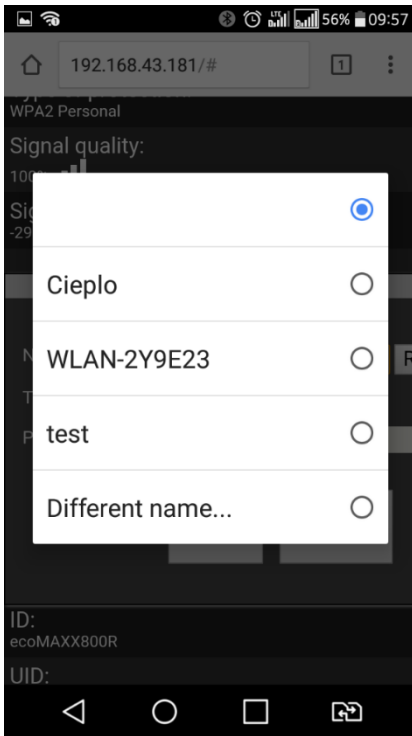

7. After "WiFi scanning" caption marked above disappears, open the drop down list "Network name" – all available WiFi networks will be shown – if desired network is not listed there, we can assume it's signal is simply too weak. Choose the network you want to connect the ecoNET300 to. After choosing the network you have automatically set up the protection type, as well as signal strength is shown. **Be aware that recommended signal strength is no less than 50%! When the signal is weaker, there's no guarantee that ecoNET300 will operate properly – too low signal strength could result in occasional losing communication with the server or problems with parameters changing.** Only thing left to do is to enter the password – focus on entering the password properly, because once "Save" button is clicked – connection with your smartphone is terminated and the ecoNET300 module starts trying to connect to the chosen network.
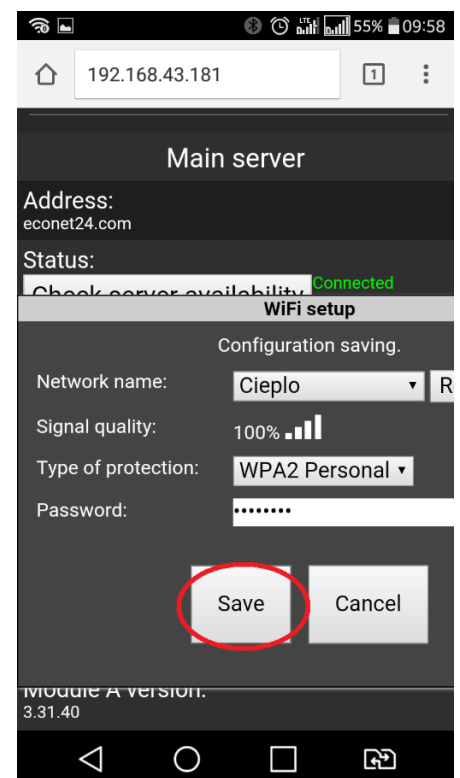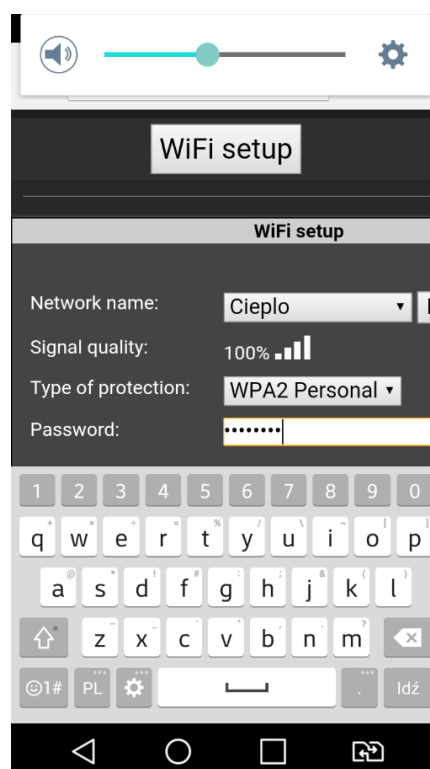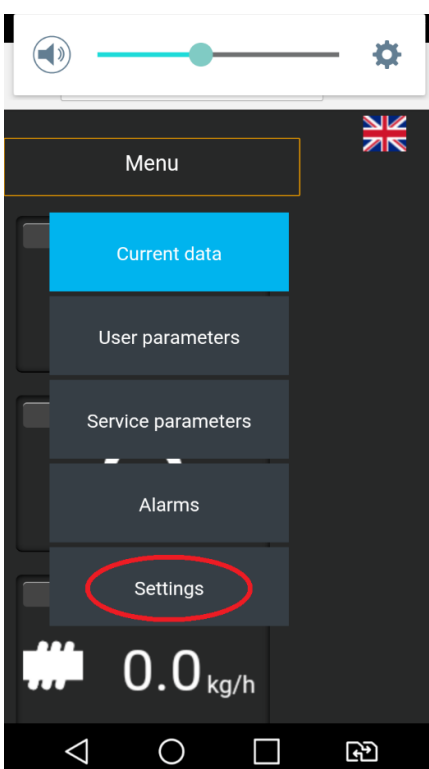
In case desired network wasn't found automatically – you can specify it there manually, by simply choosing from the drop-down "network name" list "Different name" option. But most possibly, as stated before, signal strength might be too weak.

8. When password is entered, tap the save button. As wrote above, the ecoNET300 module connection with the smartphone network is terminated and the module starts to connect to the desired WiFi network. If password was entered correctly, after around 1 minute the ecoNET300 should successfully connect to the network, what will be indicated in the controller information tab.
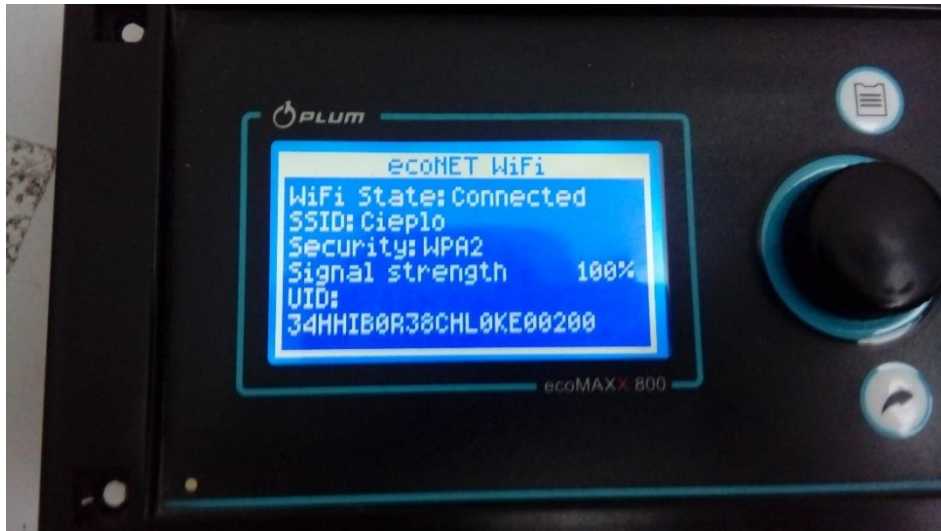
To sum up – if the ecoNET300 module connects to your hotspot, we are sure that WiFi is fully operational. Next steps are simply to check whether desired WiFi network is available in the place of installation. At the end you can take an advantage of all tests and connect to the desired WiFi network. In case of problems not covered in that instruction (apart from problems with creating hotspot on the smartphone) please contact to service.heat@plum.pl or via mobile +48 692 772 145.