WiFi communication module

Technical details and installation instruction

General description

• The WiFi module is compatible with the **Panosol SR208C WiFi** controller, being able to transmit the information recorded by the solar controller in the **Panosol DeltaX** application which is available on www.panosol.ro website.

• The module transmits the status of the controller every 60 seconds with the following information:
  - Values of sensors T1, T2, T3
  - State of the solar pump (R1), including speed
  - Status of relay H1 (on or off)

• The WiFi controller is going to be connected to the RS485 port available on the controller.

• Immediately after configuration is done, the module starts transmitting the controller information to the Panosol DeltaX server.

Connecting the Wi-Fi module

Connecting the data cable

• Introduce the ESP-01S module in the RS485 dedicated port

• In the controller menu go to the **ESP submenu** and activate it by switching it to **ON status**

• When the WiFi module is in programming mode, the led on the ESP module should be off

• When the WiFi module is configured to connect to a local wireless acces point, the blue led on the ESP module should be on.
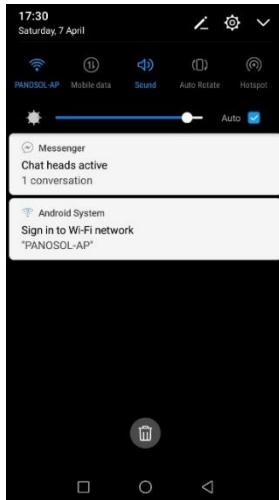

Configuring the Wi-Fi connection

• If the configurator mode has been turned on, the blue LED on the WiFi module will flash and the **PANOSOL-AP** wireless network will become available for connection.

• ATENTION - If the configuration procedure has failed or you wish to reprogram the adapter, you have to push the UP button until the displays shows "WIFI A5", release the UP button and push it immediately again for 5 seconds. If the reset procedure was successful the ESP led with light off.

• Using a notebook or a mobile phone, connect to the Wi-Fi module using the **PANOSOL-AP** network and password **12345678**
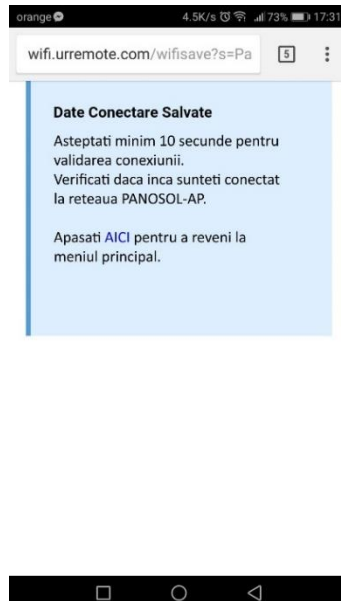
Connecting to the Wi-Fi module

• The first time you open the browser, the WiFi module will redirect you to the web configuration interface.

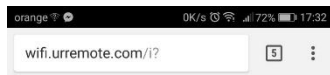• If the redirection to the configuration interface does not work, access the following link using the web browser: http://192.168.4.1

Configuring the internet connection

• Press the button **Configurare** and the list of wireless networks available in the nearby area will be showed.
• Select your wireless network and you will be requested it's password.
• After introducing the correct password save by pressing **Salveaza** button

• During the verification of access credentials, your notebook or smartphone can be disconnected from the PANOSOL-AP network. Wait 10 seconds after pressing the save button and the check if you are still connected to the WiFi module(PANOSOL-AP). If not please reconnect to it and then press the **AICI** button.

Checking the connection

Informatii retele WiFi

Aplicatie dezvoltata pentru PANOSOL ROMANIA

Configurat sa se conecteze la AP Panosol si **conectat in acest moment** cu IP 192.168.1.178

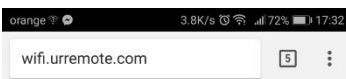**Informatii Dispozitiv**

Name	Value
Chip ID	11436111
Flash Chip ID	1327328
IDE Flash Size	524288 bytes
Real Flash Size	1048576 bytes
Access Point IP	192.168.4.1
Access Point MAC	5E:CF:7F:AE:80:4F

• If the access credentials have been entered correctly, the following message will be displayed on the main screen: "Configured to connect to AP xxxxxxxxx and currently connected to ip xxx.xxx.xxx.xxx"

• To check the connection information, press the **INFORMATII** button

Finishing the configuration process

• To complete the WiFi adapter setup process, click the **INCHIDE PORTAL** button

• After the configuration server has closed, the WiFi module will start transmitting data from the Solar Controller to the **Panosol DeltaX server** and show the screen below.

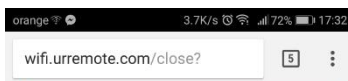• After the configuration server has shut down, the **PANOSOL-AP** network will become unavailable.

PANOSOL-AP on Panosol

Configurare

Informatii

Inchide Portal

Configurat sa se conecteze la AP Panosol si **conectat in acest moment** cu IP 192.168.1.178

Reteaua mea este **Panosol**
Adresa IP ESTE **192.168.1.178**

Serverul de configurare s-a inchis...