



THE WEB MODULE

# ecoNET300

REMOTE CONTROL OF BOILER CONTROLLERS



[www.econet24.com](http://www.econet24.com)

ecoNET.apk

ecoNET.app



## OPERATION AND INSTALLATION MANUAL

ISSUE: 1.1\_EN

APPLIES TO THE BOILER CONTROLLERS, SERIES: ecoMAX850, ecoMAX860, ecoMAX920



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## 1. Information about documentation

The manual is a supplement for the controller manual. In particular, except for this manual, the controller manual should also be observed. We are not responsible for any damages caused by failure to observe these instructions.

## 2. Applied symbols

In this manual the following graphic symbols are used:



- the sign indicates that the information provided relates to the features of the module.



- the sign means that the posted information has an impact on safety.

## 4. Directive WEEE 2012/19/UE

Purchased product is designed and made of materials of highest quality. The product meets the requirements of the **Directive 2012/19/EU of 4 July 2012 on waste electrical and electronic equipment (WEEE)**, according to which it is marked by the symbol of crossed-out wheeled bin (like below), meaning that product is subjected to separate collection.



Responsibilities after finishing a period of using product:

- dispose of the packaging and product at the end of their period of use in an appropriate recycling facility,
- do not dispose of the product with other unsorted waste,
- do not burn the product.

By adhering obligations of waste electrical and electronic equipment controlled disposal mentioned above, you avoid harmful effects on the environment and human health.

## 3. General informations

The internet module enables controller operation remote control (on-line) via Internet. User can remotely monitor operation of the controller and modify operation parameters of the controller with

the use of a computer, tablet or mobile phone. Essential features of the module:

- cooperation with **www.econet24.com** external server provides access to controller via Internet,
- supports Wi-Fi wireless networks,
- preview of current operation parameters of the controller in readable and clear "tiles",
- visualization via readable hydraulic diagram indicating current operation of the hydraulic system,
- preview and edition options of most (user and service) parameters of the controller,
- registration of operation parameters and alarm conditions of the controller,
- possibility of e-mail notifications concerning alarm conditions of the controller.

www.econet24.com



## 4. Safety information



Always turn off the controller before connecting the internet module.



Do not use the device for other than intended use.



Verify if controller software is adapted to cooperate with ecoNET300 internet module.



Connecting the internet module not in accordance with the manual or improperly can result in inappropriate operation of the controller or interruption of its operation.



Device can be started and connected only by a person who read this manual.



In any circumstances do not modify construction of the device.

## 5. Cooperation with controllers



The internet module will cooperate only with controllers with installed software supporting ecoNET300 module.

Check controller software version before connecting a ecoNET300 module with the controller.

In the controller main menu select tab:

**MENU → Information → Software version**

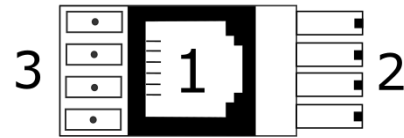
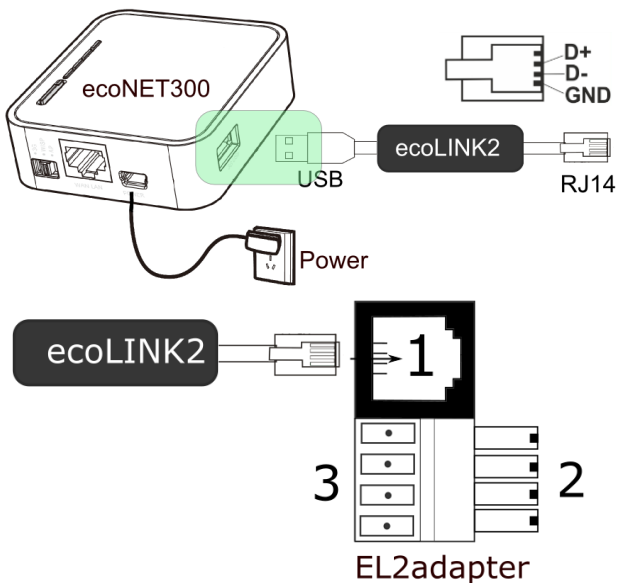
User can contact with the controller manufacture in order to verify whether a particular type of controller will be cooperating with ecoNET300 according to data concerning controller software versions.

## 6. Connection to the controller



In order to connect the ecoNET300 module with the controller, ecoLINK2 interface is required which is a part of the set.

The ecoNET300 internet module has to be connected with controller with the use of ecoLINK2 interface. In case of some types of controllers it is necessary to use an appropriate adapter. The ecoLINK2 interface and adapter are a part of the ecoNET300 set.



**EL2adapter v2**

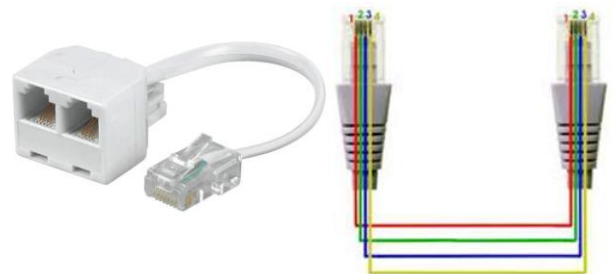
Adapter: 1 - socket for RJ11 ecoLINK2 interface, 2 - a plug for controller module transmission socket, 3 - socket for a control panel plug.

### 6.1 Connection with ecoMAX850P2

The ecoMAX850P2 controllers are equipped with just one COM transmission socket in RJ11 standard which a control panel (located inside or outside the controller housing) is connected to. Using one RJ11 socket in the module requires connecting an additional divider (telephone RJ11 tee separator) and additional cable.

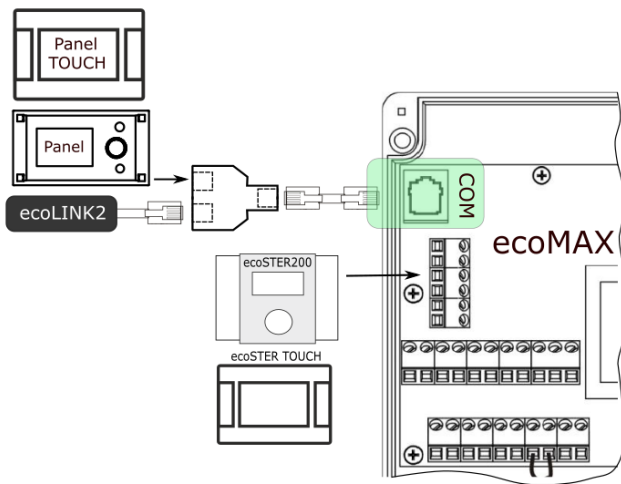


Standard divider, RJ11 telephone divider: 1-connection of RJ11 ecoLINK2 interface plug, 2-connection of the control panel plug, 3-connection of an additional cable with two RJ11 terminals.



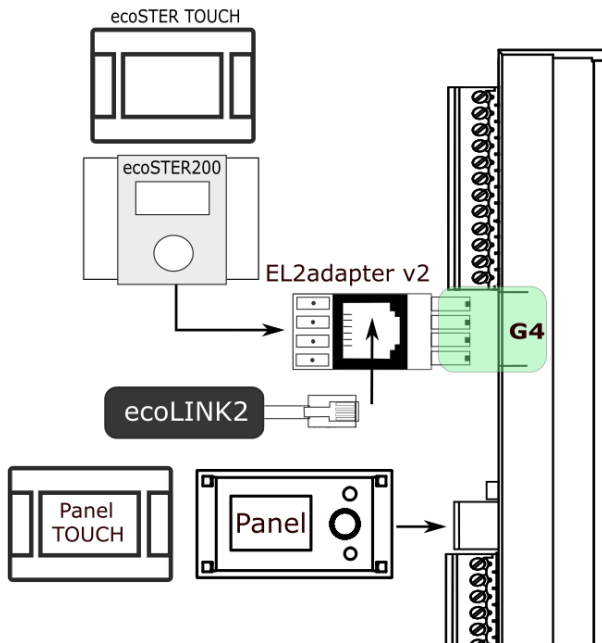
Standard RJ11 telephone cable with an option of connecting wires and a method of connecting into the divider.

Below show location of the controller COM transmission socket, where: interface ecoLINK2, on diagram includes: COM transmission socket (connection point between cable and divider), divider, control panel, additional room panel and additional cable to a divider.



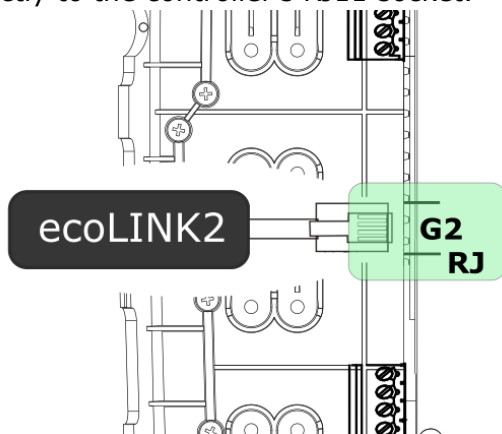
## 6.2 Connection with ecoMAX860P3

In case of ecoMAX860P3 controller, a EL2adapter v2 must be used in order to connect ecoLINK2 interface.



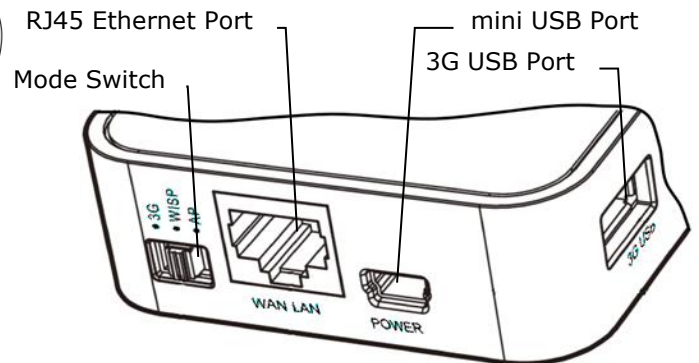
## 6.3 Connection with ecoMAX920

In case of ecoMAX920 controller, the ecoLINK2 interface must be connected directly to the controller's RJ11 socket.

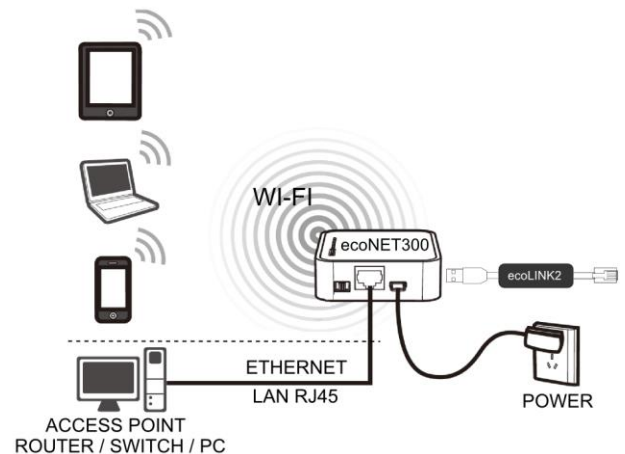


## 7. Connection with Internet

The ecoNET300 requires constant access to a wire LAN or wireless Wi-Fi network in a place of installation of the controller.



Connect adapter plug to a mini USB Port socket and 3G USB Port to the ecoLINK2 interface. Connect with RJ45 Ethernet Port with Ethernet cable, e.g. with ADSL router, switch and modem. A socket does not have to be use in case of Wi-Fi wireless network access. The Mode Switch can be set in any position.







Connection of ecoNET300 with ETHERNET RJ45 with access points of LAN wire Internet network or with Wi-Fi wireless network.




WPS/RESET button. Deleting user name and password and restoring default settings.

The LED indicators of module operation condition.

LED	LED condition	Module operation condition
	● ON	Power on.
	○ OFF	Power off.
	● ON	Active connection of the controller.
	○ OFF	No connection with controller.
	● ON	Connection to a programmed wireless network is on.
	○ OFF	No connection with wireless network.
	● ON	Connection with www.econet24.com external server is on.
	○ OFF	No connection for www.econet24.com external server.

After the power is on, ecoNET300 requires app. 1 minute in order to load the operational system. Then, the module begins to work and indicates its condition with LED indicators. In a connection between ecoNET300 module with a controller is

active, a "  connection with controller" indicator lights up. New functions for

managing ecoNET300 module are added to the main menu.

**MENU → Information → ecoNET WiFi**

**MENU → Information → ecoNET Ethernet**

**MENU → Main settings → WiFi**



The ecoNET300 requires active DHCP server of Access Point (e.g. router) because manual IP assignment for ecoNET300 internet module is not supported. More information can be obtained from router configuration software or network administrator.



In case of connection with a chosen Access Point via wireless network, user has to know the settings of Wi-Fi network which the module will be connected to: network name (SSID), protection type, access password.

In case of connection with LAN wire network, a **ecoNET Ethernet** tab will be available in controller menu from which the **IP** number, mask and gate can be read out and ecoNET24 server connection condition can be checked. It is required to save the displayed **IP** number (e.g. IP:10.1.2.237). This number in a form of: http://10.1.2.237 is entered into the address field from the level of LAN network. A website to operate the controller menu will be activated.

It is necessary to enter network parameters in **General settings** menu of the control panel in order to make a wireless connection via Wi-Fi.

To do this, select:

**MENU → general settings → WiFi (WiFi settings)**

Select **SSID** in **Network Settings**. It is a name of the local wireless network which has to be the same for all devices working in this network (SSID can be, e.g.: myWiFi).







Use the "TOUCH and PLAY" knob to select letters and characters from the list, or touch on the onscreen keyboard. Selected name is confirmed with **ENTER/OK**.

In **Network settings** select **Security**. Select and confirm encryption type in Wi-Fi network (most often selected type is **WPA2**). Go to **Password** tab. Enter Wi-Fi access password using letters/characters available on the list and confirm with **ENTER/OK**. Filling data correctly results in ecoNET300 connected to a Wi-Fi network.

In the **MENU** → **Information** → **ecoNET WiFi**, user can readout an **IP** number, Mask, gate and ecoNET24 connection condition (required: **Server: Connected**). **IP** number is used for opening a boiler controller website from a level of LAN network.



The Wi-Fi network parameters (SSID, protection type and password) can be also configured from a level of ecoNET300 website after previously connecting it to a LAN wire network.

## 8. Logging to ecoNET account

The ecoNET300 internet module cooperates with external server which is available under **www.econet24.com**. This provides access to the controller via Internet.

In order to log into an account on an external server, enter **www.econet24.com** into an address field of the web browser.

Enter **Login** and **Password** in order to log into ecoNET account.

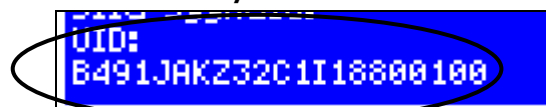
To reminder the password for an existing account, we choose **FORGOT PASSWORD** and enter your email. A password reminder will be sent to your email account.

### 8.1 First logging to ecoNET account

In case of first logging, user has to create a new account in **REGISTER** tab.

Following conditions must be met:

- the controller has to be connected to a power supply and properly connected to internet module,
- the internet module should be connected to the Internet and be logged into the external server ("Server connection" indicator is active),
- from **ecoNET WiFi/Info** tab in the controller main menu, should be read the **UID** number (unique ID of the controller): **MENU** → **Information** → **ecoNET WiFi/Info**



The UID number should be entered on the **REGISTRATION** tab. If the system correctly validates the UID number, the account registration form will be displayed. It should be complete the form with the data of the controller user and enter the login password. Form field:

- *UID controller* – the controller's UID is shown. The ecoNET24 server verifies whether UID number is correct.
- *Controller label* – enter any name of controller.



- *Remote access to the controller by the service and the producer* – enables to access and edit controller parameters via the service and the producer.
- *Controller installation address (Same as the user's address)* – check this field if the controller address is the same as residential address.
- *Alarm notifications (Allows to send alarm notifications by email)* – in case an alert occurs, an alarm message including alarm contents will be sent on previously entered e-mail address.

Obligatory fields: **E-mail, Password, Password (again).**









Creating an ecoNET account will only be possible after you have read the Terms of Use in the form of regulations. Press the **Register** button.





## 9. Website support



User is required to know the operation of the controller in order to modify its values.

Description of the Web page menu for managing the work of the controller.

	Current readout of the controller operation condition data and possibility of changing its selected parameters.
	Graphical representation of hydraulic diagram of installation with current operation condition readout for its particular elements.
	Detailed readout and modification of operation parameters of the controller.
	Detailed reading and modification of advanced parameters of the controller only after entering the service password.
	Data archive of selected controller operation parameters.
	List of controller alarms.
	Work schedule of the controller and temperature reduction.
	Graphical graph of fuel consumption. NOTE: Tab available only in controllers with dedicated software by producer.

 Device settings	Information about controller and additional modules, possibility to change the address of controller installation.
 Devices	Option to read parameters from the list of registered devices in one ecoNET account.
 My account Logout	Add a new device UID to the list for ecoNET account and logout.
 EN	Select a Web site language.

### 9.1 Current data

The **Current Data** tab includes tiles with values of basic controller operation parameters.


A parameter to be modified is indicated by



symbol. Just click on this tile and the value change window will appear, where set the new parameter value with the slider and then confirm with the **Save** button.

46 °C

min 40°C —  + max 85°C

Exit with modification without saving a new setting is possible by clicking on the  symbol.

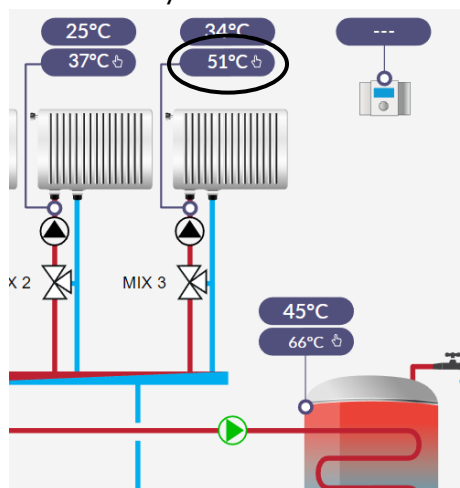
### 9.2 Diagram


The **Diagram** tab includes graphical connection diagram between controller and heating system in the building with readouts of parameters from sensors in particular points of the installation.

A parameter to be modified is indicated by



additional symbol.



Just click in the edit box and the value change window will appear, where set the new parameter value with the slider and confirm with the **Save** button. Exit with modification without saving a new setting is possible by clicking on the  symbol.


### 9.3 User and service parameters

The basic parameters of the controller work are displayed in the **User parameters** tab and can be modified by the user. Advanced parameters are displayed in the **Service parameters** tab and can only be modified after entering a service password. All displayed parameters are grouped accordingly.

Click on the name of the selected parameter group and expand the list of available parameters. Parameters to be modified is

indicated by  symbol.

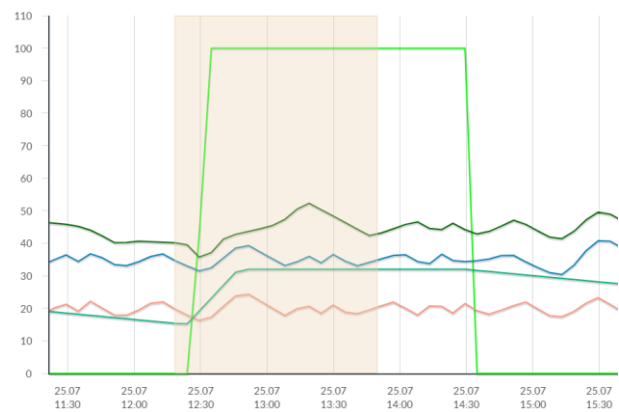
In order to change, select the appropriate parameter name, click on the parameter, in the additional window that appears, set the new parameter value with the slider and confirm with the **Save** button.


Exit with modification without saving a new setting is possible by clicking on the  symbol.

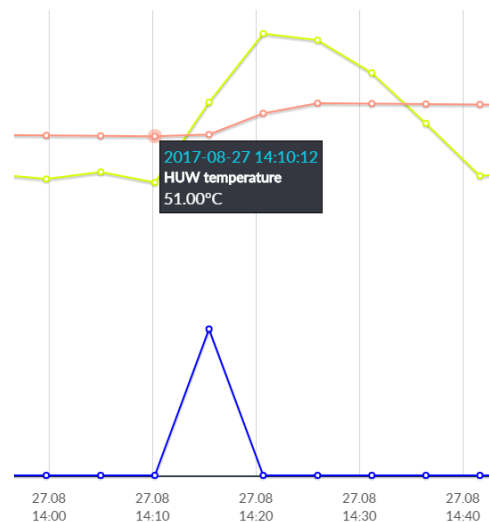
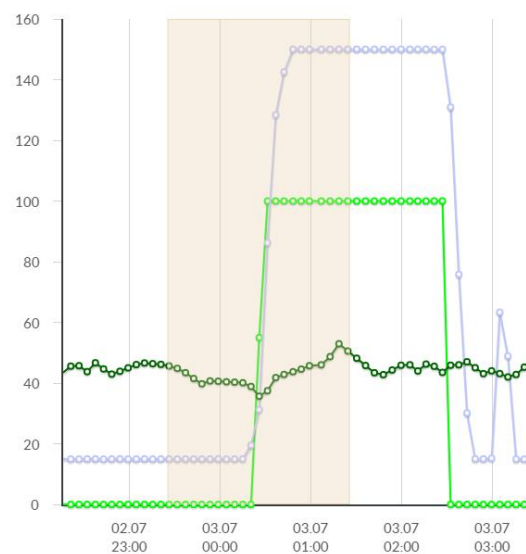
### 9.4 Data history


The **Data history** tab enables to readout registered parameters concerning operation of the whole heating system in a selected time and present it in the form of a graph.


Choose a time period for data readout by clicking **From:** or **To:** (select date and time in a calendar) or time interval: **Last night, last week, last month**. The selection is accepted by the **Generate scheme** button. Then select from the list below the graph the parameters that will be shown in this graph. By specifying the choosing time zone in the graph, you can rescaling this area on more accurately.



In addition, clicking the  symbol causes the "nodes" to be displayed in the graph. This is information about the time and value of a single sample of data sent by the controller to ecoNET24.



Return to the initial graph by pressing the  symbol.

The graph data can be saved as a \*.CSV or \*.PNG file when you press  symbol.

### 9.5 Alarms

In the **Alarms** tab, user can read:


- a list of registered alarms and other events sent by the controller,
- a type of alarm, event and period of its occurrence is displayed.

Log into **www.econet24.com** external server in order to display all logs of alarm conditions from the beginning of operation of the controller.

Alarm notices can be sent on e-mail. It enables the user to react fast in order to restore normal operation of the controller.

## 9.6 Schedule

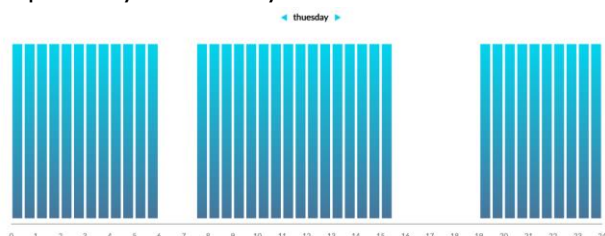
In the **Schedule** tab user have the option of setting the time intervals, according to the

list after clicking on the  symbol:

- reduction preset temperature of the heating circuits.

Turn on the schedule by selecting **On** for the available circulation from the list, and enter the decreasing temperature value in the **Decrease** field, .e.g. 10°C. On a bar chart daily graph (24 hours), click on the appropriate bars (each bar corresponds to 30 minutes), which allows to set the active temperature reduction in the selected time interval. Once set, choose **Save**.

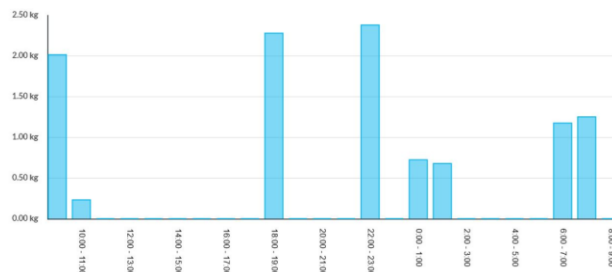
Decreasing of preset temperature can be set separately for all days of the week.



In the example above, on Tuesday, the preset temperature for the heating circuit is reduced by 10°C between 6:00 and 7:30 and 15:30 to 19:00. In other ranges, the preset temperature will not be lowered.

## 9.7 Fuel consumption

In the **Fuel consumption** tab user can read the fuel consumption in kilograms in a daily cycle (every 1 hour) or a monthly cycle (every 1 day).



## 9.8 Device settings

The **Device settings** tab enables to:

- change the controller installation address,
- reading basic Wi-Fi network parameters,
- readout a software version in the controller module and additional modules or panels,
- update internal ecoNET300 software.

The ecoNET24 server periodically checks availability of new software version for the ecoNET300 module. It displays information concerning a new software version. All the user needs to do is to press **Update** button.



Software update process can be shorter or longer depending on the speed of Internet connection. Do not disconnect the device from a power supply during update process because it will cause its damage.

When changing Wi-Fi network, click **Refresh**, select *Network name*, and used *Type of security* (e.g. WPA2 Personal) and enter *Password* to a selected network.

All modifications must be confirmed by **Save** button.

## 10. Mobile application

The mobile application allows remote access via smartphone, tablet only to controllers equipped with the ecoNET300 internet module. The application uses an Internet connection and a user account on the **www.econet24.com** website.



The applications works only with ecoNET24 server, so should be need to sign up for an ecoNET account to use them.

The application allows to preview and efficiently configure the most important parameters of the controller. In this regard, it primarily provides:

- preview basic operating parameters

- possibility to modify values of selected parameters
- view and edit time schedules
- reading the alarm list.



The **ecoNET.apk** for Android application is available for free download directly under the link:



ecoNET.apk



ecoNET.app

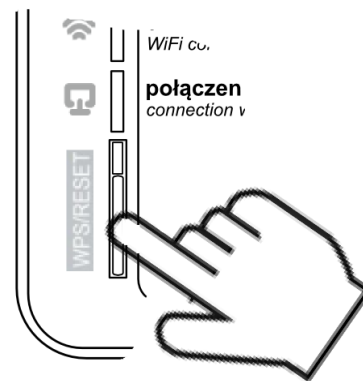
## 11. Restoring default user name and password



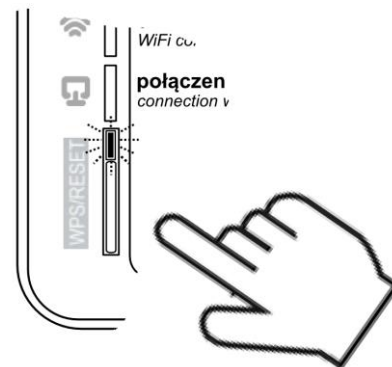
In case the user has forgotten his password for logging in the Internet module, it is possible to restore default data with the use of a button on the ecoNET300 housing.

Default username and password (user: **admin**, password: **admin**) can be restored with the use of WPS/RESET button located near indicators on the ecoNET300 housing. The ecoNET300 module has to be connected to power supply.

1. Push WPS/RESET button during normal module operation.



2. Hold this button pressed for at least 10 seconds.
3. Release the WPS/RESET button.
4. A LED indicator near the button should flash several times.



5. Wait for app. 2 minutes.
6. The module will automatically start up and connect with the Internet.
7. Default username and password will be restored (user: **admin**, password: **admin**).

### Register of changes:

v1.1 – 04-2020 – added point 12.

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