

USER MANUAL EU-WiFi 8S p

EN



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JG.11.08.2022

I. SAFETY

Before using the device for the first time the user should read the following regulations carefully. Not obeying the rules included in this manual may lead to personal injuries or controller damage. The user's manual should be stored in a safe place for further reference. In order to avoid accidents and errors, it should be ensured that every person using the device has familiarized themselves with the principle of operation as well as security functions of the controller. If the device is to be put in a different place, make sure that the user's manual is stored with the device so that any potential user has access to essential information about the device. The manufacturer does not accept responsibility for any injuries or damage resulting from negligence; therefore, users are obliged to take the necessary safety measures listed in this manual to protect their lives and property.



WARNING

- A live electrical device! Make sure the regulator is disconnected from the mains before performing any
 activities involving the power supply (plugging cables, installing the device etc.)
- The device should be installed by a qualified electrician.
- The regulator should not be operated by children.

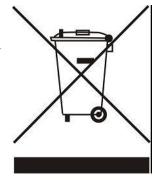


WARNING

- The device may be damaged if struck by a lightning. Make sure the plug is disconnected from the power supply during storm.
- Any use other than specified by the manufacturer is forbidden.
- Before and during the heating season, the controller should be checked for condition of its cables. The user should also check if the controller is properly mounted and clean it if dusty or dirty.

Changes in the merchandise described in the manual may have been introduced subsequent to its completion on 11.08.2022. The manufacturer retains the right to introduce changes to the structure or colours. The illustrations may include additional equipment. Print technology may result in differences in the colours shown.

We are committed to protecting the environment. Manufacturing electronic devices imposes an obligation of providing for environmentally safe disposal of used electronic components and devices. Hence, we have been entered into a register kept by the Inspection for Environmental Protection. The crossed-out bin symbol on a product means that the product may not be disposed of to household waste containers. Recycling of waste helps to protect the environment. The user is obliged to transfer their used equipment to a collection point where all electric and electronic components will be recycled.



II. DEVICE DESCRIPTION

The EU-WiFi 8S p controller is an online wireless device for controlling electric actuators STT-868/STT-869 (up to 6 actuators per zone). Its main task is to maintain stable temperature in the rooms with the use of actuators for 8 heating zones. The controller is equipped with an additional contact for switching on/off an additional device (e.g. a gas boiler).

Controller functions:

- Controlling all parameters via a web application https://emodul.eu
- Controlling up to 8 zones with the use of:
 - possibility of connecting 8 wireless sensors EU-C-8r, EU-C-mini or room regulators EU-R-8b, EU-R-8bw, EU-R-87.
- NO/NC relay output (e.g. for controlling the heating device which is activated when the room temperature is too low)
- Possibility of connecting in each zone:
 - up to 6 wireless electric actuators STT-868/STT-869
 - up to 6 wireless window sensors EU-C-2n
- Software update via USB port
- Each zone may by assigned an individual operation mode (constant temperature, time limit or 6 operation schedules)
- Compatible with wireless external sensor EU-C-8zr
- Compatible with wireless repeater EU-RP-3, EU-RP-4
- Possibility of connecting an executive module EU-MW-1

Controller equipment:

- Front panel made of glass
- Built-in internet module
- 5V in-wall power supply
- Wireless temperature sensor EU-C-mini

The heating system may be managed via a web application at https://emodul.eu. The eModul application may be downloaded from the Google Play or Apple store.

III. PRINCIPLE OF OPERATION

The EU-WiFi 8S p controller decides if a given zone needs to be heated on the basis of current temperature value sent by the room sensor or the room regulator, as well as the individual operation algorithm of the zone. If heating is necessary, the controller activates the voltage-free contact (or sends a signal via EU-MW-1) which may be used e.g. for controlling the heating device, and opens the actuators registered in a given zone. The signal from each zone is transmitted to the EU-WiFi 8S p controller via room regulators or room sensors. They communicate with the controller via radio signal. Each zone may be assigned wireless valve actuators STT-868/STT-869 (registration is necessary).

IV. HOW TO INSTALL THE CONTROLLER

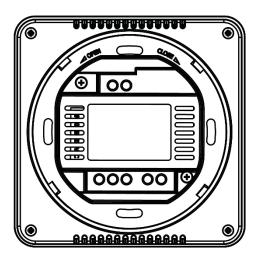
The controller should be installed by a qualified person.

WARNING

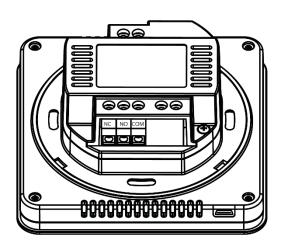


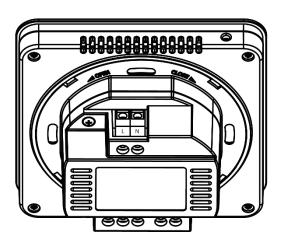
Risk of fatal electric shock from touching live connections. Before working on the controller switch off the power supply and prevent it from being accidentally switched on.

Remove the back cover and connect the wires.



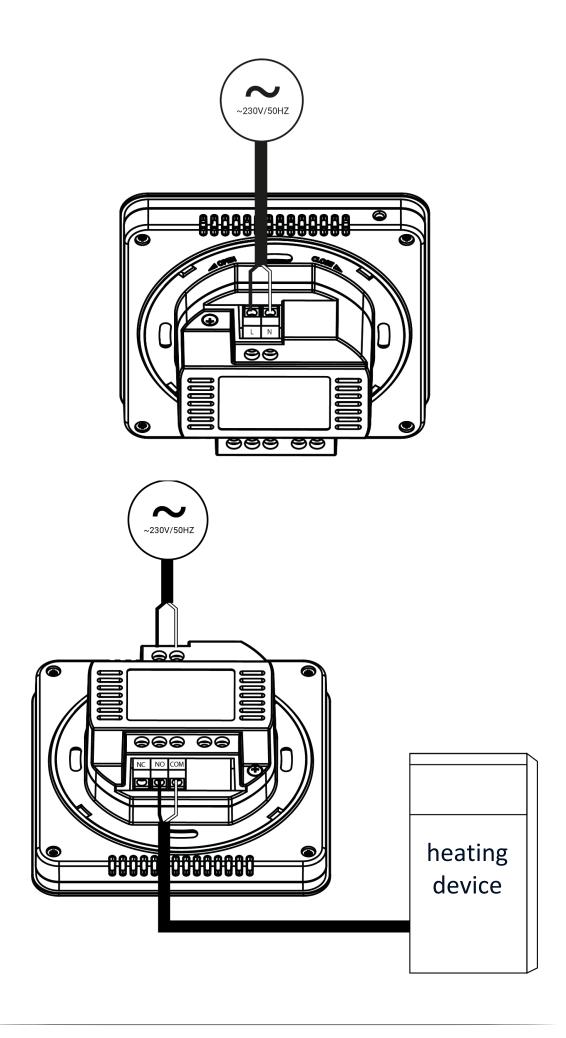
Next, connect the wires following the diagrams below and the connector labels.



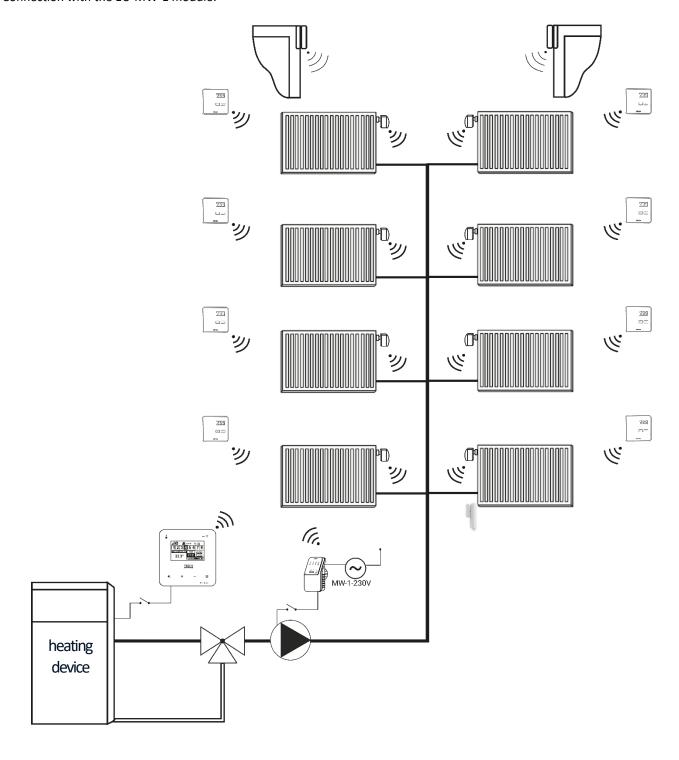


Keep the following order:

- 230V supply cable to the controller connector
- additional device (e.g. a heating device)



Connection with the EU-MW-1 module:



V. FIRST START-UP

In order for the controller to work properly, follow these steps while starting it for the first time:

- 1. Configure the Internet connection
- 2. Configure the external sensor (optional)
- 3. Configure the room sensors, room regulators
- 4. Configure wireless thermostatic actuators STT-868/STT-869
- 5. Configure window sensors (optional)

1. HOW TO CONFIGURE INTERNET CONNECTION

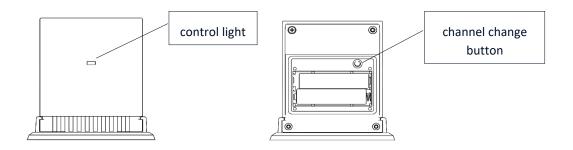
EU-WiFi 8S p has a built-in Internet module, which enables the user to control the heating system via the Internet. First, connect to the Internet by selecting your WiFi network in the menu: <WiFi network selection>. Such parameters as IP Address, IP Mask, Gate Address may be set manually or it is possible to activate DHCP option (enabled by default).

Next, go to https://emodul.eu/ and create your account. After selecting <Registration> in the controller menu, the system generates a code which must be entered in <Settings> tab of the emodul.eu website (Register module).

2. HOW TO CONFIGURE THE EXTERNAL SENSOR EU-C-8ZR

It is necessary to register the external sensor by selecting <Registration> in the EU-WiFi 8S p controller (Main menu > External sensor > Registration) and pressing the communication button on the external sensor (press the button briefly once).

The registration process enables the external sensor automatically. Once registered, the sensor may be switched off at any time by selecting <OFF> .





NOTE

Switching the sensor off in the external sensor menu only interrupts the communication (the external temperature is no longer displayed on the external controller screen). It does not disable the external sensor itself – it remains active until the battery is flat.

3. HOW TO CONFIGURE TEMPERATURE SENSORS AND ROOM REGULATORS

To enable EU-WiFi 8S p to control a given zone, it is necessary to provide it with current temperature value. The easiest way is to use the EU-C-8r temperature sensor. If the user wants to be able to change the pre-set temperature value directly from the zone, it is advisable to use EU-R-8b , EU-R-8bw or EU-R-8z room regulator. Regardless of the type of temperature sensor / room regulator chosen, it must be registered in a particular zone in the EU-WiFi 8S p controller menu.

In order to register the sensor/room regulator, go to the submenu of a given zone and select Registration (Zone/Registration). Next, press the communication button which can be found on the back of the selected temperature sensor/room regulator (in the case of EU-C-8r, EU-R-8b, EU-R-8bw, EU-R-8z, press the button once briefly). If the process has been completed successfully, the EU-WiFi 8S p controller display will show an appropriate message. Otherwise, the process must be conducted again.



The following rules must be kept in mind:

- Only one temperature sensor may be registered in each zone.
- Once registered, the sensor cannot be unregistered, but only switched off in the submenu of a given zone (by selecting OFF).
- If the user attempts to assign a sensor to the zone to which other sensor has already been assigned, the first sensor becomes unregistered and it is replaced by the other one.
- If the user attempts to assign a sensor which has already been assigned to a different zone, the sensor is unregistered from the first zone and registered in the other one.

It is possible to set individual pre-set temperature value and a weekly schedule for each room sensor assigned to a given zone. The pre-set zone temperature may be adjusted in the controller menu (Main menu / Zones). Weekly schedule settings and the pre-set values may be configured via https://emodul.eu.

HOW TO CONFIGURE WIRELESS THERMOSTATIC ACTUATORS STT-868/STT-869



NOTE

The maximum of 6 actuators may be registered in each zone.

Registration process:

- 1. Install the thermostatic actuator on the radiator and wait until it calibrates.
- 2. Go to the EU-WiFi 8S p menu, select the zone number where the actuator is to be registered and select Actuators/Registration.
- 3. Press the registration button on the actuator within 120 seconds from selecting *Registration* option. When the time is over, the registration attempt will be considered unsuccessful.
- 4. If the registration process has been completed successfully, the display will show an appropriate message. In case of any errors, the display will show an appropriate message.

There are 2 possible causes of errors in the registration process:

- an attempt to register more than 6 actuators
- no signal from the valve actuator within the period of 120 seconds

HOW TO CONFIGURE WINDOW SENSOR

In order to register the sensor, go to EU-WiFi 8S p menu and select the number of the zone where the sensor is to be registered. Next, select Window sensors/Registration and press quickly the communication button on the window sensor. Release the button and watch the control light:

- control light flashes twice proper communication established
- control light lights up continuously no communication with the main controller

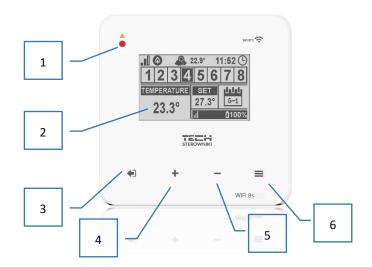
VI. WIRELESS COMMUNICATION

The EU-WiFi 8S p controller may communicate wirelessly with certain devices:

	Device	Function	Configuration
g and	EU-C-8r room temperature sensor	- sending current room temperature readings	The sensor should be registered in a given zone.
295 [7]*1	a two-state room regulator power supply: 2xAAA 1,5V	- sending current zone temperature data - adjusting pre-set temperature directly from the zone - air humidity measurement (EU-R-8bw)	The room regulator should be registered in a given zone.
TREATE A. C.	a two-state room regulator power supply: 230V 50Hz	 sending current zone temperature data adjusting pre-set temperature directly from the zone 	The room regulator should be registered in a given zone.
-	EU-C-8zr external temperature sensor	- sending current external temperature data to EU-WiFi 8S p controller	The sensor should be registered in EU-WiFi 8S p controller.
	STT-868 wireless thermostatic actuator	opening/closing the valve in order to maintain desired temperature value	The actuator should be registered in a given zone.
6	STT-869 wireless thermostatic actuator	opening/closing the valve in order to maintain desired temperature value	The actuator should be registered in a given zone.
	EU-C-2n window sensor	- sending a signal to the main controller informing about window opening/closing	Install the sensor on a window and register it in the zone.
	EU-RP-3, EU-RP-4 wireless repeater	- increasing wireless coverage between devices	The repeater should be registered in the controller.

	EU-MW-1	- offering the possibility of	The module should be	
TRESH	executive module	establishing wireless	registered in the controller.	
		communication with the		
		main controller or		
		temperature sensor		

VII. MAIN SCREEN DESCRIPTION



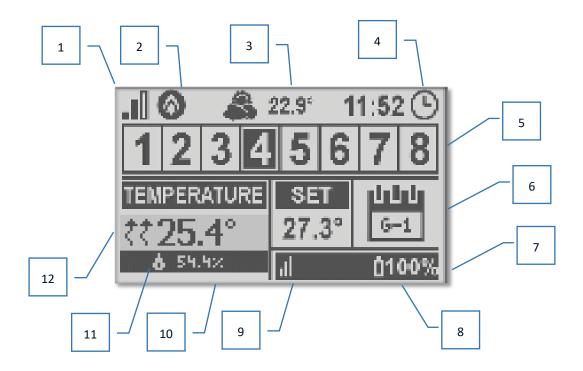
- 1. LED control light
- 2. Display
- 3. EXIT in the main screen view it is used to open up the screen view selection submenu (WiFi or Zones). In the controller menu it is used to cancel the settings and exit the submenu.
- 4. PLUS in the main screen view it is used to view the status of the next zone. In the controller menu it is used to view the controller functions and increase the value while editing parameters.
- 5. MINUS in the main screen view it is used to view the status of the previous zone. In the controller menu it is used to view the controller functions and decrease the value while editing parameters.
- 6. MENU it is used to enter the controller menu and confirm the new settings.



NOTE

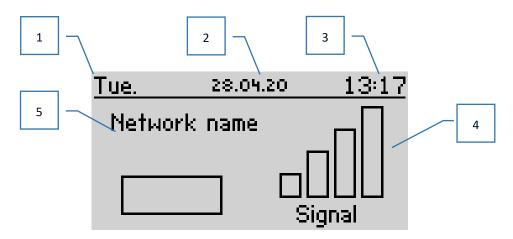
The controller has a motion detection function. When motion is detected within a distance of about 2 cm from the touch buttons, the controller display will light up.

MAIN SCREEN DESCRIPTION - ZONES



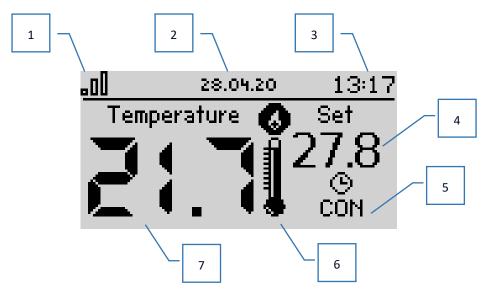
- 1. WiFi signal strength
- 2. Additional device icon displayed when the device is switched on.
- 3. External temperature
- 4. Current time
- 5. Zone information:
 - The displayed digit represents the room sensor sending current temperature readings from a given zone. In case
 of an alarm in a given zone, the screen displays an appropriate message. If the digit is flashing, the corresponding
 zone needs heating.
 - In order to view current operating parameters of a given zone, highlight its number using PLUS or MINUS.
 - If a window icon is displayed instead of a digit, it means that the zone needs heating but a window in the zone is open and heating is disabled.
- 6. The type of current weekly schedule or Time left before the next change of manually-set zone temperature
- 7. Battery level in the EU-C8-r room sensor or in the room regulator (e.g. EU-R-8b) in a given zone (highlighted number in the zone information bar see: description no 5).
- 8. Signal strength of the EU-C8-r room sensor or the room regulator (e.g. R-8b) in a given zone (highlighted number in the zone information bar see: description no 5).
- 9. Pre-set zone temperature (highlighted number in the zone information bar see: description no 5).
- 10. Current zone temperature (highlighted number in the zone information bar see: description no 5).
- 11. Air humidity
- 12. An icon indicating that heating is enabled in a given zone (highlighted number in the zone information bar see: description no 5).

> MAIN SCREEN DESCRIPTION - WIFI



- 1. Day of the week
- 2. Current date
- 3. Current time
- 4. Signal strength
- 5. WiFi network name

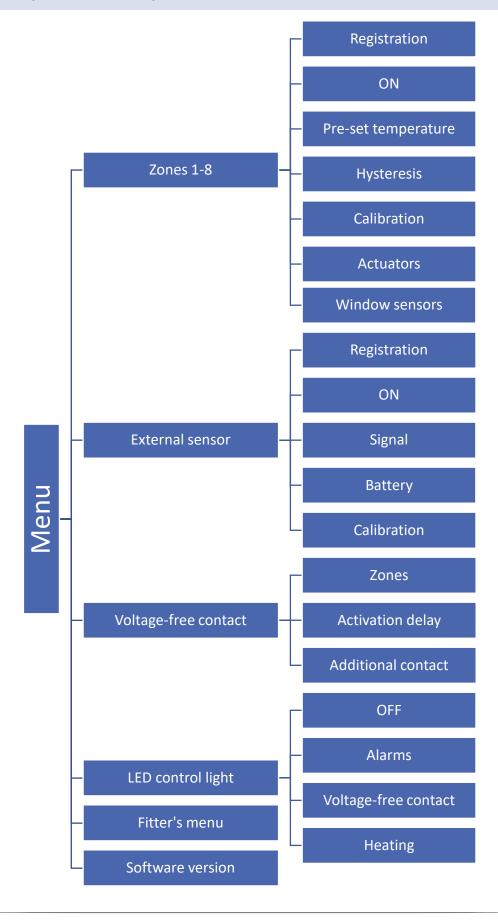
➢ MAIN SCREEN DESCRIPTION - ZONE 1



- 1. WiFi signal strength
- 2. Current time
- 3. Current date
- 4. Pre-set zone temperature
- 5. Time left before the next change of the pre-set temperature
- 6. Additional device icon displayed when the device is switched on.
- 7. Current room temperature

VIII. CONTROLLER FUNCIONS

1. BLOCK DIAGRAM - MAIN MENU



2. ZONES 1-8

This submenu enables the user to configure operation parameters for particular zones.

2.1. REGISTRATION

The Registration function is available for zones 1-8.

Once the room sensor has been switched on and registered in a zone, it will be used by the EU-WiFi 8S p controller. It may also be disabled by deselecting *ON*.

2.2. ON

Once the room sensor has been switched on and registered in a zone, it will be used by the EU-WiFi 8S p controller. It may also be disabled by deselecting ON.

2.3. PRE-SET TEMPERATURE

The pre-set zone temperature depends on the weekly schedule settings. However, this function enables the user to change this value separately - it is necessary to deactivate the schedule. The user may set constant temperature or for a pre-defined period of time.

2.4. HYSTERESIS

This function is used to define tolerance of the pre-set temperature in order to prevent undesired oscillation in case of small temperature fluctuation (within the range $0.1 \div 10^{\circ}$ C) with the accuracy of 0.1° C.

Example: if the pre-set temperature is 23°C and the hysteresis is 0,5°C, the zone temperature is considered too low when it drops to 22,5°C.

2.5. CALIBRATION

Room sensor calibration is performed while mounting or after it has been used for a long time, if the zone temperature displayed differs from the actual temperature. Calibration range is from -10° C to $+10^{\circ}$ C with the accuracy of 0,1°C.

2.6. ACTUATORS

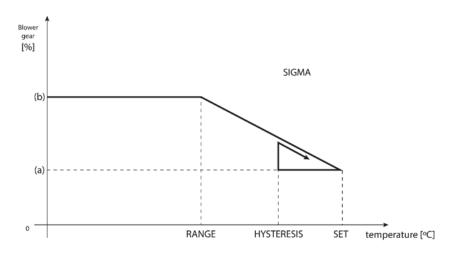
This submenu is used to configure the operation of STT-868/STT-869 thermostatic actuators. It is possible to register up to 6 actuators in each zone. The registration process is described in detail in the section *First start-up*. In order to unregister all actuators from a given zone, select Actuator removal function.

From 1.1.0 actuator software version on, it is possible to identify, monitor status or remove single actuators. In order to do it, press the button on the actuator and hold it for about 2 seconds until EU-WiFi 8S p display shows an information screen.

The Settings submenu enables the user to configure the operation of thermostatic actuators. It is possible to define the maximum and minimum actuator opening – these levels of valve opening and closing will never be exceeded.

SIGMA function allows for smooth control of the thermostatic valve. Once the function has been activated, the user may also define the minimum and maximum level of valve closing.

Moreover, the user adjusts the *Range* parameter which specifies the room temperature at which the valve starts opening and closing.



(a) - min. opening(b) - Actuator openingZAD - set temperature

Example:

Pre-set zone temperature: 23°C

Minimum opening: 30% Maximum opening: 90%

Range: 5°C Hysteresis: 2°C

In the above example, the thermostatic valve starts closing at the temperature of 18°C (pre-set value minus Range: 23-5). The minimum opening is reached when the zone temperature reaches the pre-set value.

After reaching the pre-set value, the temperature starts falling. At the temperature of 21°C (pre-set value minus hysteresis: 23-2) the valve starts opening. The maximum opening is reached at the temperature of 18°C.

2.7. WINDOW SENSORS

- **Registration** In order to register the sensor, select *Registration* and press quickly the communication button on the window sensor. Release the button and watch the control light:
 - the control light flashes twice proper communication established
 - the control light lights up continuously no communication with the main controller
- Sensor removal this function is used to remove the sensors from a given zone.
- **Information** this option is available only when the sensor is registered. It enables the user to view all the sensors and check their range and battery level.
- **Settings** This function is used to set the delay time. When the pre-set delay time is over, the main controller sends a signal to the actuators forcing them to close. The time setting range is 0-30 minutes.

Example: Delay time is set at 10 minutes. When the window is opened, the sensor reports it to the main controller. If the window is still open after 10 minutes, the main controller will force the actuators to close and disable heating in the given zone.



NOTE

If the delay time is set at 0 minutes, the signal forcing the actuators to close will be sent immediately.

3. EXTERNAL SENSOR

It is possible to connect an external temperature sensor to the controller. The device enables the user to monitor current temperature on the main screen as well as via https://emodul.eu.

Once the external sensor has been installed, it must be registered in the EU-WiFi 8S p controller – the registration process is described in detail in First start-up section.

After registering the sensor, the user may check the battery level and signal strength as well as calibrate the sensor. The external sensor is not involved in the control process.

4. VOLTAGE-FREE CONTACT

4.1. ZONES

This menu enables the user to select the zone which will influence the operation of the built-in voltage-free contact. If a given zone is not selected, its status is ignored by the controller and the voltage-free contact is not activated if the temperature in this zone is too low.

4.2. ACTIVATION DELAY

The user may also set the contact activation delay time. If a given zone needs heating, the contact will be enabled only after the pre-set delay time.

4.3. ADDITIONAL CONTACT

It is also possible to register an additional contact (the MW-1 module), which works similarly to the built-in contact.

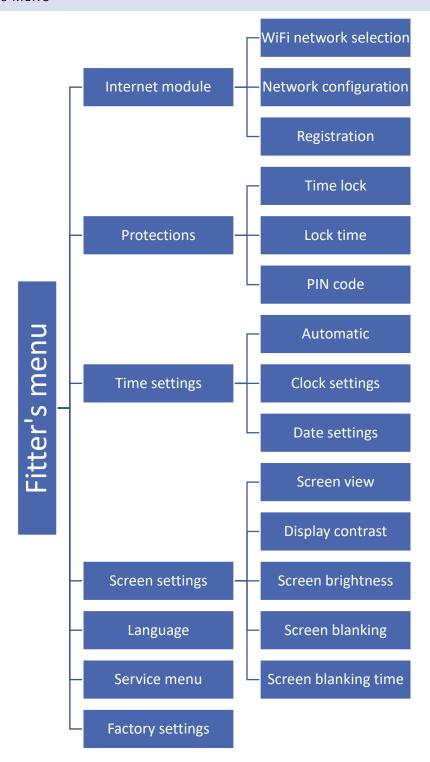
In order to register a module, follow these steps:

- press the registration button on the module
- select Registration in the EU-WiFi 8S p controller

5. LED CONTROL LIGHT

- Alarms in case of an alarm the LED starts flashing.
- **Voltage-free contact** when the contact is closed, the LED is flashing. When the contact opens, the LED lights up continuously.
- **Heating** if a given zone needs heating, the LED starts flashing. When the pre-set zone temperature has been reached, the LED lights up continuously.

6. FITTER'S MENU



6.1. INTERNET MODULE

Required network settings

For the Internet module to work properly, it is necessary to connect the module to the network with a DHCP server and an open port 2000.

After connecting the Internet module to the network, go to the module settings menu (in the master controller).

If the network does not have a DHCP server, the Internet module should be configured by its administrator by entering appropriate parameters (DHCP, IP address, Gateway address, Subnet mask, DNS address).

- 1. Go to the Internet module settings menu.
- 2. Select "ON".
- 3. Check if the "DHCP" option is selected.
- 4. Go to "WIFI network selection"
- 5. Select your WIFI network and enter the password.
- 1. Wait for a while (approx. 1 min) and check if an IP address has been assigned. Go to the "IP address" tab and check if the value is different from 0.0.0.0 / -.-.-.
 - a) If the value is still 0.0.0.0 / -.-.-, check the network settings or the Ethernet connection between the Internet module and the device.
- 2. After the IP address has been assigned, start the module registration in order to generate a code which must be assigned to the account in the application.

WIFI NETWORK SELECTION

This submenu offers a list of available networks. Select the network and confirm by pressing MENU. If the network is secured, it is necessary to enter the password. Use + and – to select each letter of the password and press EXIT to complete the procedure.

NETWORK CONFIGURATION

Normally, the network is configured automatically. The user may also conduct it manually using the following parameters of this submenu: DHCP, IP address, Subnet mask, Gate address, DNS address and MAC address.

REGISTRATION

Select *Registration* in order to generate the code necessary to register the EU-WiFi 8S p controller at https://emodul.eu – see: First start-up.

6.2. PROTECTIONS

This function is used to change the parental lock settings. After activating the *Time lock* function, the screen will lock after the time set in the *Lock time* parameter is over. The user can set a PIN code which will be requested before entering the controller menu.



NOTE

Default PIN code is 0000.

6.3. TIME SETTINGS

The controller downloads current time and date from the network. The user may also set the time and date manually.

6.4. SCREEN SETTINGS

The parameters available in this submenu enable the user to customize the main screen view. It is possible to select the parameters to be displayed: WiFi (the screen displays the network name and signal strength) or Zones (the screen displays current and pre-set parameters in particular zones).

The user may also adjust the display contrast as well as the screen brightness. The screen blanking function enables the user to adjust the brightness of a blank screen. Screen blanking time defines the idle time after which the screen goes blank.

6.5. LANGUAGE

This function is used to select the language version of the controller menu.

6.6. SERVICE MENU

The parameters available in the service menu should be configured only by qualified fitters and access to this menu is secured with a code.

6.7. FACTORY SETTINGS

This function is used to restore factory settings of the parameters in the main menu (excluding the service menu).



NOTE

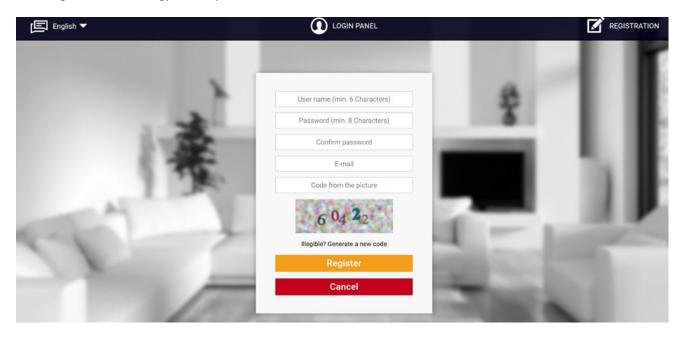
After selecting this function it will be necessary to configure the Internet connection. If this function has been activated, all registered devices are removed from the device memory.

7. SOFTWARE VERSION

This function is used to view the controller software version.

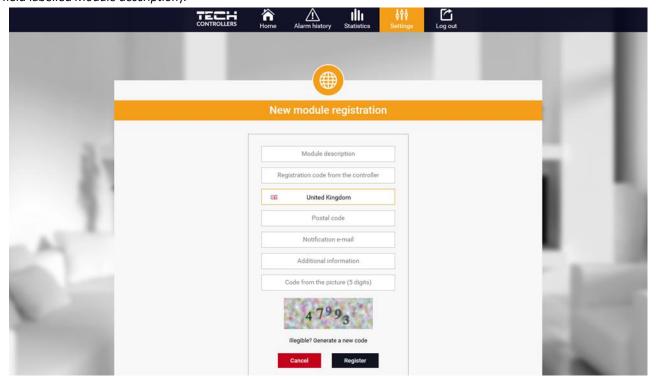
IX. HOW TO CONTROL THE HEATING SYSTEM ONLINE

The web application at https://emodul.eu offers multiple tools for controlling your heating system. In order to take full advantage of the technology, create your own account:



Registering a new account at https://emodul.eu

Once logged in, go to the *Settings* tab and select *Register module*. Next, enter the code generated by the controller (to generate the code, select *Registration* in the EU-WiFi 8S p controller menu). The module may be assigned a name (in the field labelled *Module description*):



Registering a new module

1. HOME TAB

Home tab displays the main screen with tiles illustrating the current status of particular heating system devices. Tap on the tile to adjust the operation parameters:



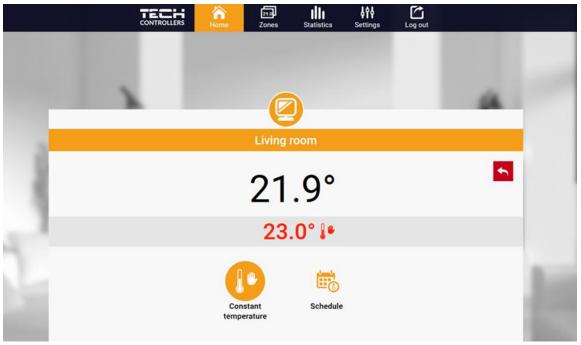
HOME tab



NOTE

No communication message means that the communication with the temperature sensor in a given zone has been interrupted. The most common cause is the flat battery which needs replacing.

Tap on the tile corresponding to a given zone to edit its pre-set temperature:

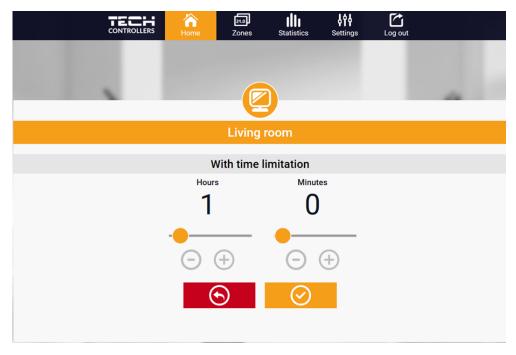


Editing the pre-set temperature

The upper value is the current zone temperature whereas the bottom value is the pre-set temperature. The pre-set zone temperature depends by default on the weekly schedule settings. *Constant temperature* mode enables the user to set a separate pre-set temperature value which will apply in the zone regardless of the time.

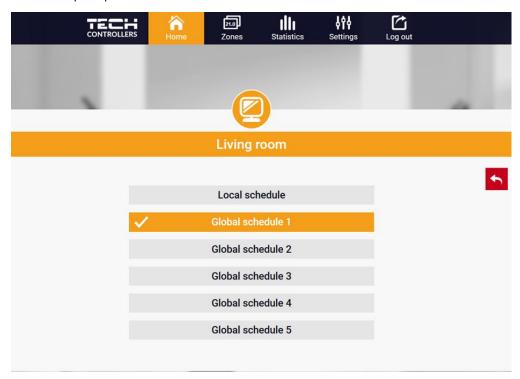
By selecting *constant temperature* icon, it is possible to set the temperature with time limits.

This mode enables the user to set the temperature value which will apply only within a pre-defined period of time. When the period is over, again the pre-set temperature depends on the weekly schedule settings (schedule or constant temperature without time limit.



Pre-set temperature with time limits

Tap on Schedule icon to open up the schedule selection screen:



Selecting a weekly schedule

Two types of weekly schedules are available in the EU-WiFi 8S p controller:

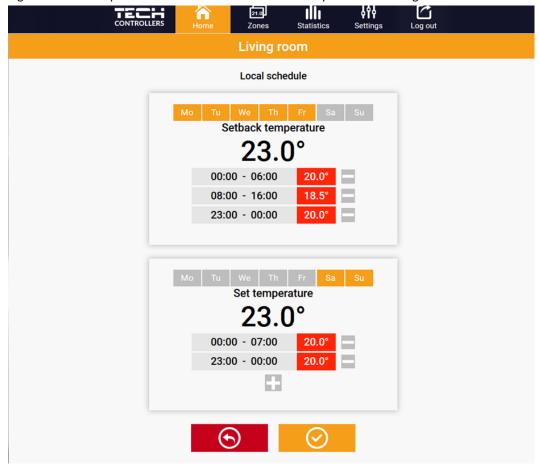
1. Local schedule

It is a weekly schedule assigned to a particular zone. Once the EU-WiFi 8S p controller detects the room sensor, the schedule is assigned automatically to the zone. It may be edited by the user.

2. Global schedule (Schedule 1..5)

Global schedule may be assigned to any number of zones. The changes introduced in the global schedule apply to all zones where the global schedule has been activated.

After selecting the schedule tap on OK and move on to edit the weekly schedule settings:

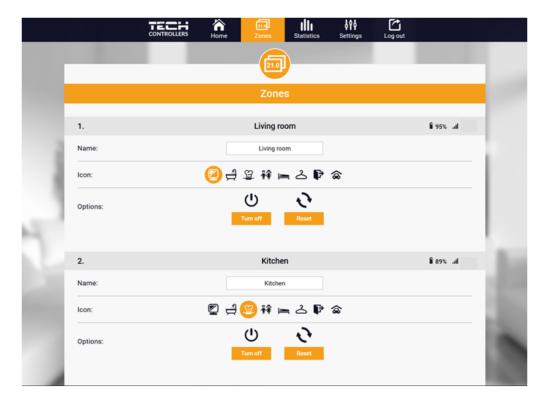


Editing a weekly schedule

Editing enables the user to define two programs and select the days when the programs will be active (e.g. from Monday to Friday and the weekend). The starting point for each program is the pre-set temperature value. For each program the user may define up to 3 time periods when the temperature will be different from the pre-set value. The time periods must not overlap. Outside these time periods the pre-set temperature will apply. The accuracy of defining the time period is 15 minutes.

2. ZONES TAB

The user may customize the home page view by changing the zone names and the corresponding icons. In order to do it, go to the *Zones* tab.



Zones tab

3. STATISTICS TAB

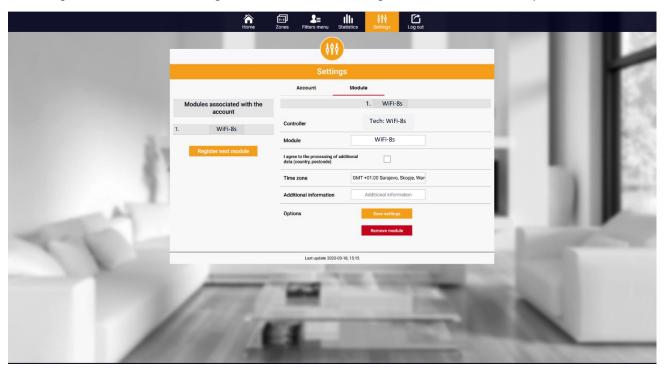
The *Statistics* tab enables the user to view the temperature charts for different time periods e.g. 24h, a week or a month. It is also possible to view the statistics for the previous months:



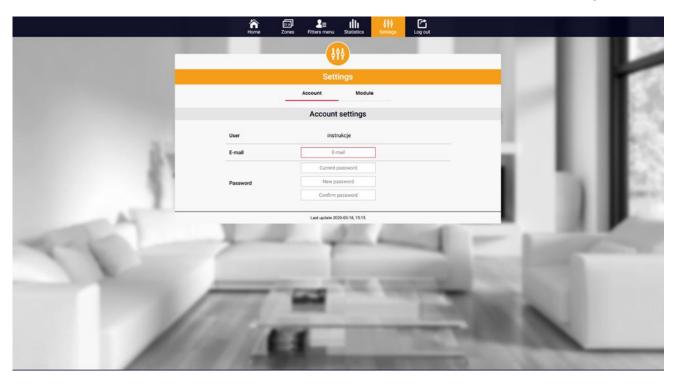
An example chart

4. SETTINGS TAB

The Settings tab enables the user to register a new module and change the e-mail address or the password:



Settings/Module tab



Settings/Account tab

X. SOFTWARE UPDATE



NOTE

Software update shall be conducted only by a qualified fitter. After the software has been updated, it is not possible to restore previous settings.

In order to install new software, the controller must be unplugged from the power supply. Next, insert the flash drive with the new software into the USB port. Switch the controller on. After the software update has been completed, the controller restarts automatically.



NOTE

Do not switch the controller off while updating the software.

XI. TECHNICAL DATA

Specification	Value
Power supply	230V ±10%/50Hz
Operation temperature	5°C÷50°C
Maximum power consumption	1,5W
Potential-free cont. nom. out. load	230V AC / 0,5A (AC1) * 24V DC / 0,5A (DC1) **
Frequency	868MHz
Transmission	IEEE 802.11 b/g/n

^{*} AC1 load category: single-phase, resistive or slightly inductive AC load.

The pictures and diagrams are for illustration purposes only.

The manufacturer reserves the right to introduce some hanges.

^{**} DC1 load category: direct current, resistive or slightly inductive load.

XII. PROTECTIONS AND ALARMS

The device supports the following cases within a zone:

Alarm	Possible cause	How to fix it		
	- No range	- Place the sensor/regulator in a different place		
No communication with the sensor/wireless regulator	- No batteries	- Insert batteries to the sensor/regulator		
	- The batteries are flat	The alarm is deactivated automatically when the communication is established.		
	STT-868 actuator alarms			
Actuator alarm – ERROR #0 – low battery	- The actuator battery is flat.	- Replace the batteries		
Actuator alarm - ERROR #1 – possible damage of mechanical or electronic parts	Some parts have been damaged	Call the service staff		
Actuator alarm - ERROR#2 – the maximum actuator stroke has been exceeded	- No piston controlling the valve - Too big stroke (movement) of the valve - The actuator has been incorrectly mounted on the radiator - Inappropriate valve on the radiator	- Install a piston controlling the actuator - Check the valve stroke - Install the actuator correctly - Replace the valve on the radiator		
Actuator alarm - ERROR#3 – too little piston movement	- The valve got stuck - Inappropriate valve on the radiator - Too little stroke (movement) of the valve	- Inspect the valve operation - Replace the valve on the radiator - Check the valve stroke		
Actuator alarm - ERROR #4 – no return communication (to the actuator)	- Out of range - No batteries	 The actuator is too far from the controller Insert batteries into the actuator After the communication is reestablished, the alarm is deactivated automatically. 		
STT-869 actuator alarms				
Error #1 - Calibration error 1 – Moving the screw to the mounting position took too much time	- The limit switch sensor is damaged	- Calibrate actuator again by holding the communication button until the third flash of green light - Call the service staff		
Error #2 - Calibration error 2 – The screw is maximally pulled out. No resistance while pulling out	- The actuator has not been screwed to the valve or has not been screwed completely	- Check if the controller has been installed properly - Replace the batteries		

	- The valve stroke is too big or the valve dimensions are not typical - Actuator current sensor is damaged	- Calibrate actuator again by holding the communication button until the third flash of green light
		- Call the service staff
Error #3 - Calibration error 3 - The screw has not been pulled out enough - the screw meets resistance too early	- The valve stroke is too small or the valve dimensions are not typical - Actuator current sensor is damaged - Low battery level	- Replace the batteries - Call the service staff
Error #4 - No return communication	- The master controller is switched off - Poor range or no range in the master controller - Radio module in the actuator is damaged	- Check if the master controller is on - Reduce the distance from the master controller - Call the service staff
Error #5 - Low battery level	The battery is flat	Replace the batteries
Error #6 - Encoder is locked	The encoder is damaged	
Error #7 - To high voltage	- Unevenness of the screw, the thread etc. may cause excessive resistance - Too high resistance of gear or motor - Current sensor is damaged	- Calibrate actuator again by holding the communication button until the third flash of green light - Call the service staff
Error #8 - Limit switch sensor error	Limit switch sensor damaged	



EU declaration of conformity

Hereby, we declare under our sole responsibility that **EU-WiFi 8S p** manufactured by TECH STEROWNIKI II Sp. z o.o., head-quartered in Wieprz Biała Droga 31, 34-122 Wieprz, is compliant with Directive **2014/53/EU** of the European parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment, Directive **2009/125/EC** establishing a framework for the setting of ecodesign requirements for energy-related products as well as the regulation by the MINISTRY OF ENTREPRENEURSHIP AND TECHNOLOGY of 24 June 2019 amending the regulation concerning the essential requirements as regards the restriction of the use of certain hazardous substances in electrical and electronic equipment, implementing provisions of Directive (EU) 2017/2102 of the European Parliament and of the Council of 15 November 2017 amending Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (OJ L 305, 21.11.2017, p. 8).

For compliance assessment, harmonized standards were used:

PN-EN IEC 60730-2-9 :2019-06 art. 3.1a Safety of use

PN-EN IEC 62368-1:2020-11 art. 3.1 a Safety of use

PN-EN 62479:2011 art. 3.1 a Safety of use

ETSI EN 301 489-1 V2.2.3 (2019-11) art.3.1b Electromagnetic compatibility

ETSI EN 301 489-3 V2.1.1 (2019-03) art.3.1 b Electromagnetic compatibility

ETSI EN 301 489-17 V3.2.4 (2020-09) art.3.1b Electromagnetic compatibility

ETSI EN 300 328 V2.2.2 (2019-07) art.3.2 Effective and coherent use of radio spectrum

ETSI EN 300 220-2 V3.2.1 (2018-06) art.3.2 Effective and coherent use of radio spectrum

ETSI EN 300 220-1 V3.1.1 (2017-02) art.3.2 Effective and coherent use of radio spectrum

PN EN IEC 63000:2019-01 RoHS.

Wieprz, 11.08.2022

we Jura Janusz Maste

Prezesi firmy



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