



TECH CONTROLLERS EU-R-8z Wireless Room Regulator User Manual

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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 sold or put in a different place, make sure that the user's manual is there 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

The device should be installed by a qualified electrician



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 wastes 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.

Technical data

Range of room temperature settings: 5÷350C

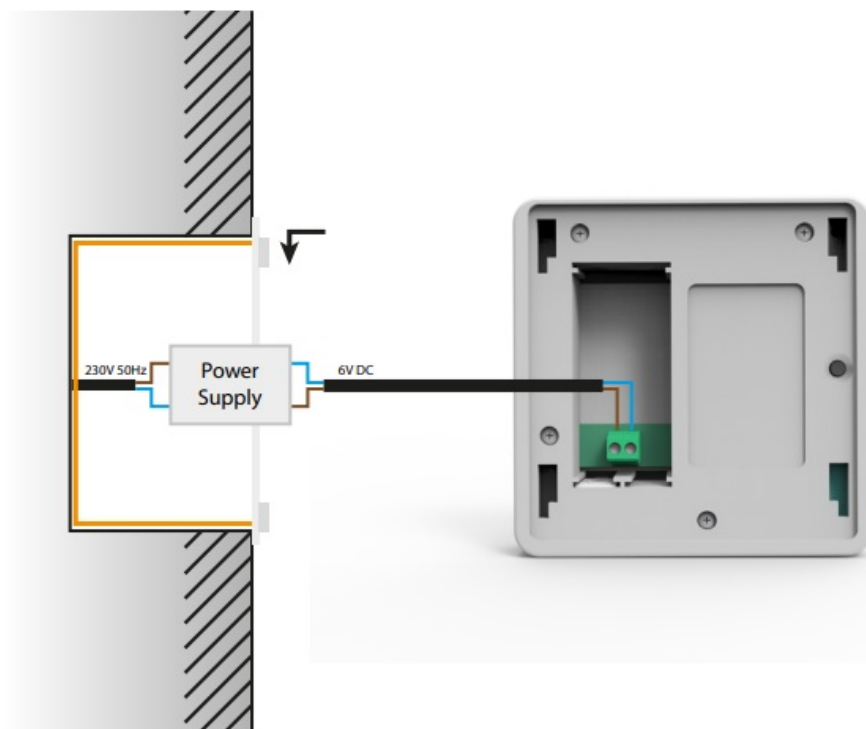
Power supply: 5-6V

Power consumption: 0,7W

Accuracy of measurement: +/-0,50C

Frequency: 868MHz

Description



EU-R-8z room regulator is intended for cooperation with EU-L-8 external controller.

EU-R-8z room regulators are installed in the heating zones. Temperature information sent by them to the external controller is used to control the thermostatic valves (by opening them when the room temperature is too low and closing them when the pre-set room temperature has been reached).

Current temperature is shown on LED display. The user may also change the preset temperature permanently or for a limited period of time directly from the sensor.

Controller equipment:

- LED display
- built-in temperature sensor
- wall-mountable cover
- light sensor

Installation

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.



WARNING

Incorrect connection of the wires may damage the regulator!

How to register the room regulator in a particular zone

Each room regulator should be registered in one zone. Enter EU-L-8 external controller menu and select Sensor in the submenu of a given zone (Zone/Registration/Sensor)- after pressing the Registration icon, press the communication button in a room regulator placed on the back of the sensor. If the registration process has been completed successfully, EU-L-8 controller display shows an appropriate message whereas the room sensor display shows "Scs". In case of errors in the registration process, the room sensor display shows "Err".

The following rules must be kept in mind:

- – once registered, the sensor cannot be unregistered, but only switched off in the menu of EU-L-8 external controller by selecting Switched off in the sub menu of a given zone.
- 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 second 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 new one.

It is possible to set individual pre-set temperature value and weekly schedule for each room regulator assigned to a given zone. The settings may be configured both in the main menu of EU-L-8 external controller (Main menu/ Sensors) and via www.emodul.eu (using EU-505 or WiFi RS). The pre-set temperature may also be adjusted

directly from the room sensor using PLUS and MINUS button.

Description of the functions available in the menu

In order to enter the menu, press and hold PLUS and MINUS buttons. Use PLUS and MINUS buttons to navigate among menu functions.

1. **Cal** – This function enables the user to view sensor calibration. After Cal function has been selected, the screen flashes for 3 seconds and displays the calibration value.
2. **Loc** – This function enables the user to activate button lock. After Loc function has been selected, the screen flashes for 3 seconds and you are asked if you want to activate the lock (yes/no). Confirm using PLUS or MINUS button. In order to confirm your choice, wait 3 seconds. Once the lock has been activated, the buttons are locked automatically after 10 seconds of inactivity. In order to unlock, press and hold PLUS and MINUS at the same time. When Ulc appears on the screen, the buttons have been unlocked.
3. **Def** – This function enables the user to restore factory settings. Once Def function has been selected, the screen flashes for 3 seconds and you are asked if you want to restore factory settings (yes/no). Select using PLUS or MINUS. Wait 3 seconds to confirm your choice.
4. **Ret** – exit the menu. Once Ret has been selected, the screen flashes for 3 seconds and returns from the menu to the main screen view.

How to change the pre-set temperature

The pre-set zone temperature may be adjusted directly from R-8z room sensor using PLUS and MINUS buttons.

During controller inactivity, the main screen displays current zone temperature. After pressing PLUS or MINUS, the current temperature is replaced with the preset temperature (the digits are flashing). Using PLUS and MINUS the user may adjust the preset temperature value. After setting desired value wait for 3 seconds – after this time the display shows a panel to define how long the new setting should apply.

Time settings may be adjusted:

- permanently – press PLUS button until Con appears on the screen (the pre-set value will apply all the time regardless of schedule settings)
- for a specified number of hours – press PLUS or MINUS until the desired number of hours appears on the screen e.g. 0th (the preset value will apply for a specified period of time; after that the weekly schedule will apply)
- if the temperature value defined in the weekly schedule settings should apply, press MINUS until the screen displays OFF.

EU Declaration of Conformity

Hereby, we declare under our sole responsibility that EU-R-8z manufactured by TECH STEREOPHONIC II Sp. z o.o., head-quartered in Wiener BIA Avogadro 31, 34-122 Wiener, is compliant with Directive 2014/53/EU of the European parliament and of the Council of 16 April 2014 on the harmonization 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 design 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 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 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

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Documents / Resources



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EU-R-8z, EU-R-8z Wireless Room Regulator, Wireless Room Regulator, Room Regulator, Regulator

References

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