


TECH EU-R-12s Controller



TECH EU-R-12s Controller User Manual

[Home](#) » [TECH](#) » TECH EU-R-12s Controller User Manual 

Contents

- 1 [TECH EU-R-12s Controller](#)
- 2 [Product Usage Instructions](#)
- 3 [Frequently Asked Questions](#)
- 4 [HOW TO USE THE REGULATOR](#)
- 5 [INSTALLATION](#)
- 6 [REGULATOR REGISTRATION](#)
- 7 [PRE-SET TEMPERATURE](#)
- 8 [MENU FUNCTIONS](#)
- 9 [WARRANTY CARD](#)
- 10 [SAFETY](#)
- 11 [UE DECLARATION OF CONFORMITY](#)
- 12 [TECHNICAL DATA](#)
- 13 [DESCRIPTION](#)
- 14 [Documents / Resources](#)
 - 14.1 [References](#)

TECH

TECH EU-R-12s Controller



Specifications

- **Model:** EU-R-12s
- **Power Supply:** AC
- **Max. Power Consumption:** Not specified
- **Operation Temperature:** Not specified

Product Usage Instructions

How to Use the Regulator

The EU-R-12s room regulator is designed to work with controllers EU-L-12, EU-ML-12, and EU-L-X WiFi. Follow these steps to use the regulator:

- **Manual Mode:** Press the buttons to switch between screens displaying current temperature, air humidity, and floor temperature (after connecting the floor sensor). Hold the EXIT button to disable manual mode.
- **Pre-set Temperature:** Use the Menu button to configure the pre-set zone temperature.
- **Heating:** The regulator controls thermostatic valves based on temperature readings.
- **Button Lock:** Simultaneously press and hold buttons to unlock them.

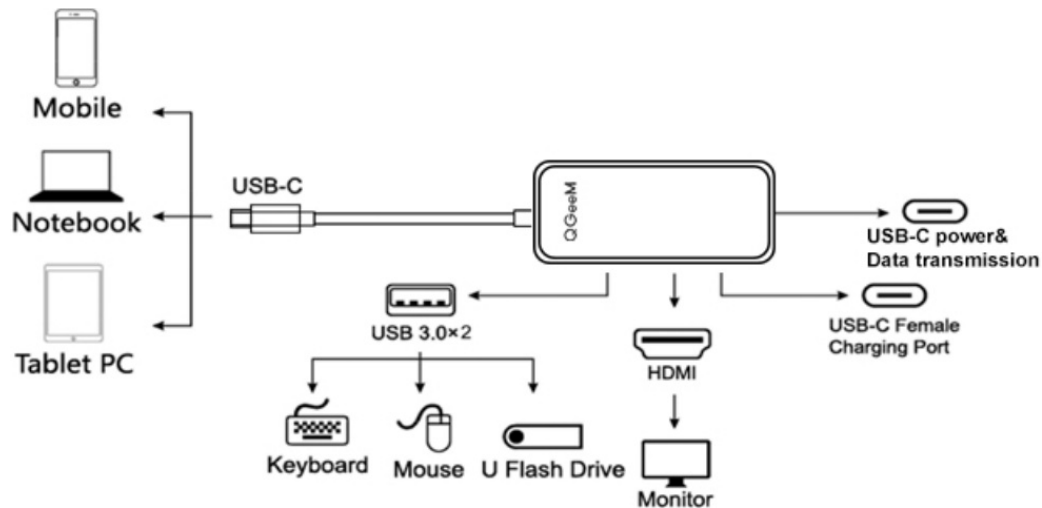
Installation

To connect the floor sensor or wires, follow these steps:

1. Remove the rear cover of the controller by twisting it slightly.
2. Control the device using touch buttons: EXIT and Menu.

Connecting the Regulator to the External Controller

Refer to the diagram below for connecting the regulator to the external controller:



Regulator Registration

To register each room regulator in a zone:

1. Access the external controller menu.
2. Select: Menu > Fitter's registration menu > Main module/Additional modules > Zones > Zone... > Room sensor > Sensor selection > Wired RS.
3. Press the registration button on the regulator.

Frequently Asked Questions

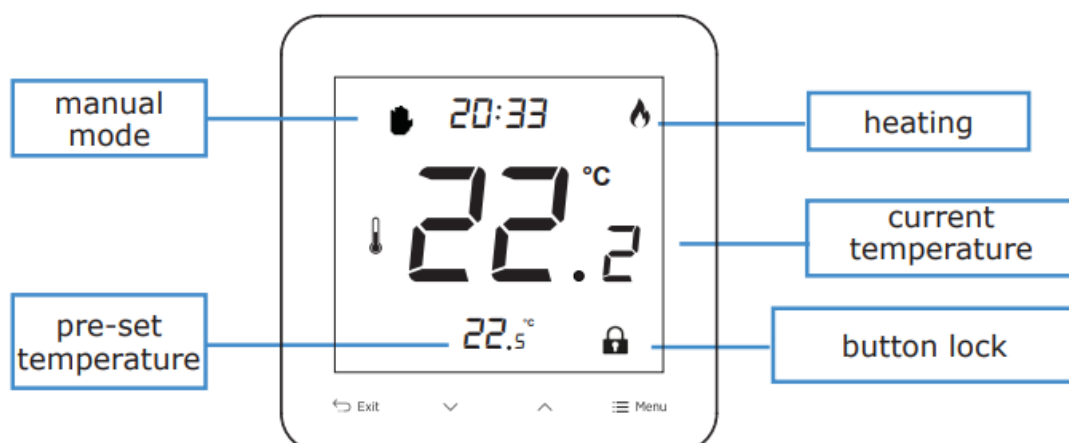
Q: Can I use the EU-R-12s regulator with any other controllers?


A: The EU-R-12s regulator is specifically designed to work with controllers EU-L-12, EU-ML-12, and EU-L-X WiFi. Compatibility with other controllers is not guaranteed.

Q: How do I reset the regulator to its factory settings?


A: To reset the regulator to factory settings, locate the reset button on the device and press it for 10 seconds until you see the reset confirmation on the screen.

HOW TO USE THE REGULATOR



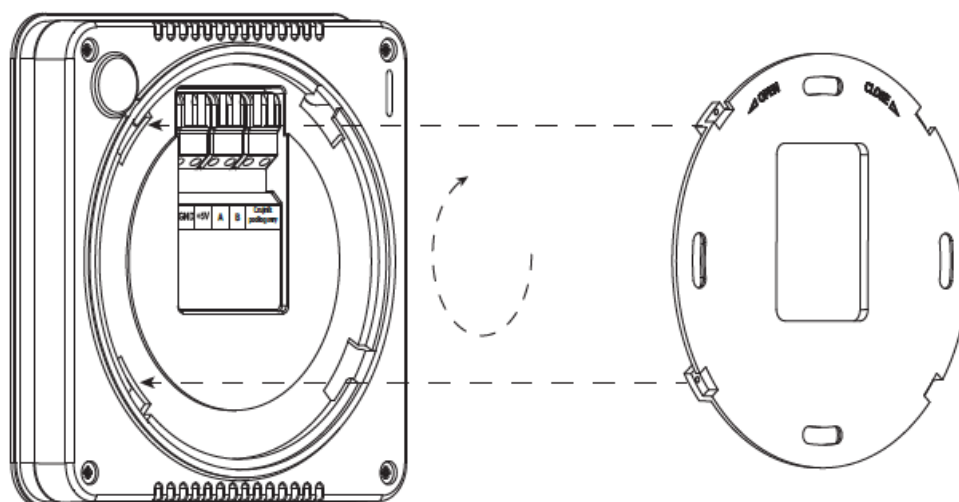
The device is controlled with the use of touch buttons: EXIT,  and Menu.

EXIT	MENU
press –switch between screens: current temperature, air humidity and floor temperature (after registering the floor sensor) – exit the Menu	press – configure the button lock function – switch between particular functions – confirm the settings
hold – disable manual mode	hold – enter to the controller menu

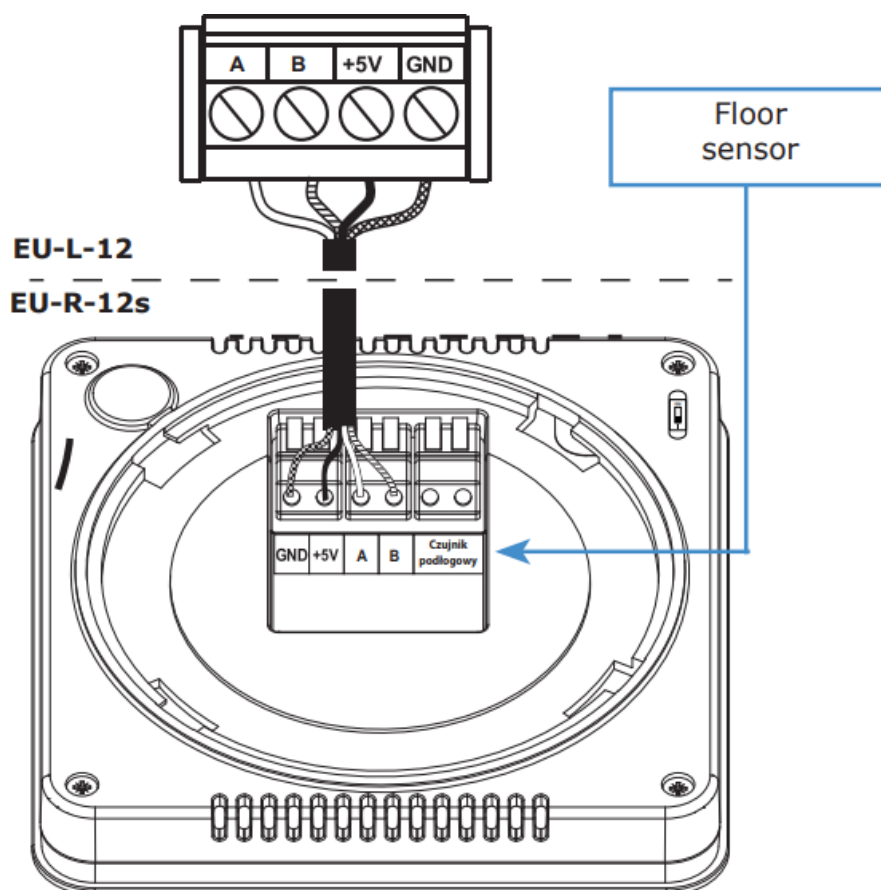
The buttons  are used to change the settings and, when held simultaneously – to unlock the buttons.

INSTALLATION

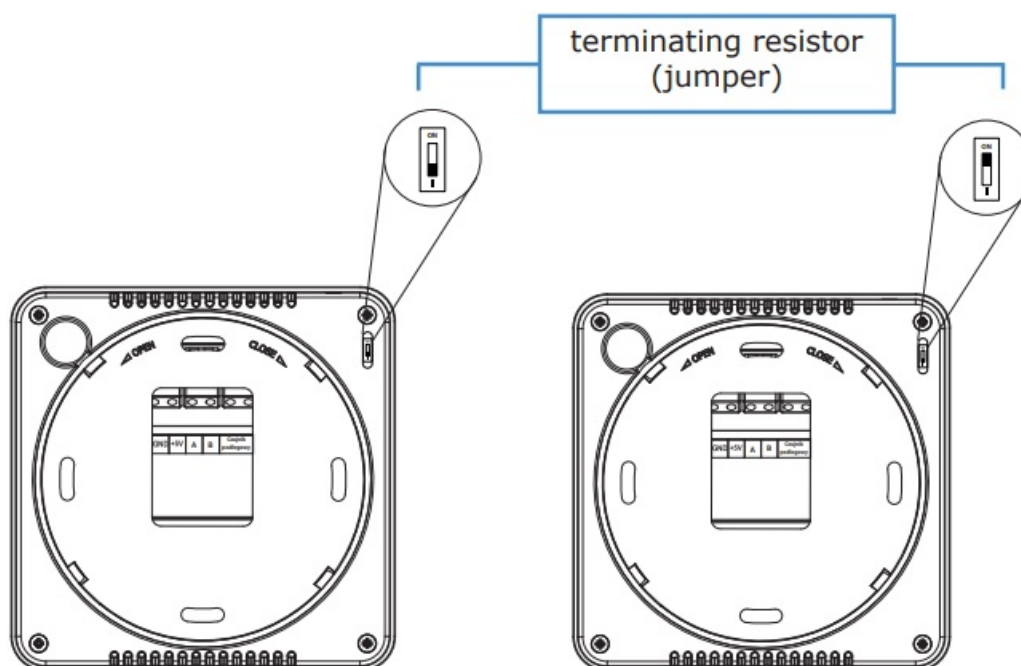
In order to connect the floor sensor or wires, remove the rear cover of the controller by twisting it slightly.



The diagram below shows how to connect the regulator to the external controller:



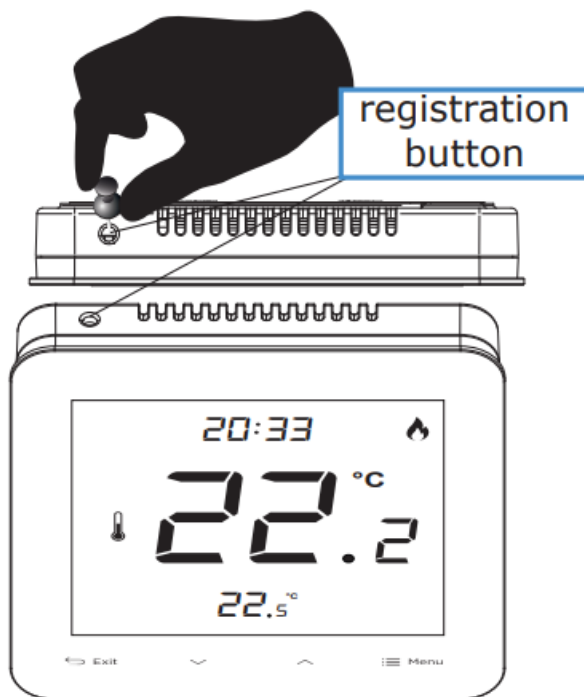
The system uses a terminating connection. Depending on the order in which the regulators are connected to the external controller (as the first one or the one in the middle of the regulator's transmission line with the external controller), set the terminating resistor in the regulator in the appropriate position. ON turns the resistor on, and 1 is the neutral position. Detailed information on the terminating connection of the external controller with the regulators is described in the EU-L-12, EU-ML-12 and EU-L-X WiFi manuals.



REGULATOR REGISTRATION

Each room regulator should be registered in a zone. In order to register, go to the external controller menu and select: (Menu > Fitter's menu > Main module/Additional modules > Zones > Zone... > Room sensor > Sensor selection > Wired RS) and press the registration button on the regulator.


If the registration process has been completed successfully, the external controller screen will display a message to confirm whereas the room sensor screen will display Scs. If the room sensor displays Err, an error has occurred during the registration process.










NOTE

- Only one room regulator may be assigned to each zone.
- The regulator can serve as a floor sensor. In order to do this, connect the NTC sensor to the regulator and activate it by double-clicking the registration button. After successful activation, the Scs message will appear on the controller display. The Err message displayed on the screen of the room regulator indicates an error in the activation process. The activated sensor must be registered in the EU-L-12, EU-ML-12 or EU-L-X WiFi external controller. (Menu > Fitter's menu > Main module/Additional modules > Zones > Zone... > Floor heating > Floor sensor > Sensor selection > Additional sensor > ON).







Remember the following rules:





- A registered regulator can be deleted (Menu > Fitter's menu > Main module / additional module > Zones > Zone ... > Room sensor > Sensor selection > Wired RS) or disabled using the external controller (by deselecting ON in the sub-menu of a given zone).
- If the user attempts to assign a regulator to the zone to which other regulator has already been assigned, the first regulator 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 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 external controller menu and via www.emodul.eu (use the module).
- The pre-set temperature may also be adjusted directly from the room sensor using the buttons  (manual mode). In manual mode, hold the EXIT button in order to exit this mode.

PRE-SET TEMPERATURE

- The pre-set zone temperature may be adjusted directly from the EU-R-12s room regulator using the buttons  .
 - During inactivity, the current zone temperature is displayed on the controller screen. Use the buttons to change the set value. When the pre-set temperature has been defined, the setting screen will appear.
- Time settings can be changed using the buttons   :
- for a specific number of hours – click the button **FIG** until the desired number of hours is displayed, e.g. 1h (the pre-set temperature will apply for 1 hour, and then the previous setting will apply: schedule or constant temperature Con). In order to confirm, press the Menu button.
- permanently – press the button  until Con is displayed (the pre-set temperature will be valid for an indefinite period of time, regardless of the schedule settings). In order to confirm, press the Menu button.
- if you want the pre-set temperature resulting from the weekly schedule settings to apply, press the button  until OFF appears on the screen. In order to confirm, press the Menu button.
- return to the previous setting (schedule or constant temperature Con) press the button  until 0 is displayed. Confirm by pressing the Menu button.

MENU FUNCTIONS

Button auto-lock – after pressing the Menu button, the Loc auto-lock function will appear. Using one of the buttons   to select Yes or No (switch the lock on/off). In order to confirm, wait for about 5 seconds or press Menu. In order to unlock the buttons, hold the buttons   simultaneously until the lock icon disappears. In order to turn off the button auto-lock, press the Menu button again and use the buttons   to select No.

1. **CAL** – this function allows you to calibrate the room sensor and then the floor sensor (if activated). After entering the Cal function, use the buttons   to set the calibration value.
2. **VER** – current software version – the software version number is necessary when contacting the service staff.
3. **FAB** – this function allows you to restore factory settings. After entering this function, you are asked whether you want to restore the factory settings (yes/no). Select one option using the buttons  . Confirm by pressing the Menu button.

After restoring the factory settings, it will be necessary to re-register the regulator to the external controller.

WARRANTY CARD

- TECH STEROWNIKI II Sp. z o.o. company ensures to the Buyer proper operation of the device for the period of 24 months from the date of sale. The Guarantor undertakes to repair the device free of charge if the defects occurred through the manufacturer's fault. The device should be delivered to its manufacturer. Principles of conduct in the case of a complaint are determined by the Act on specific terms and conditions of consumer sale and amendments of the Civil Code (Journal of Laws of 5 September 2002).
- CAUTION! THE TEMPERATURE SENSOR CANNOT BE IMMERSSED IN ANY LIQUID (OIL ETC.). THIS MAY RESULT IN DAMAGING THE
- CONTROLLER AND LOSS OF WARRANTY! THE ACCEPTABLE RELATIVE HUMIDITY OF THE CONTROLLER'S ENVIRONMENT IS 5÷85% REL.H. WITHOUT THE STEAM CONDENSATION EFFECT.

- THE DEVICE IS NOT INTENDED TO BE OPERATED BY CHILDREN.
- Activities related to setting and regulation of the controller parameters described in the Instruction Manual and parts wearing out during normal operation, such as fuses, are not covered by warranty repairs. The warranty does not cover damages arising as a result of improper operation or through the user's fault, mechanical damage or damage created as a result of fire, flood, atmospheric discharges, overvoltage or short-circuit. The interference of an unauthorized service, wilful repairs, modifications and construction changes cause the loss of Warranty. TECH controllers have protective seals. Removing a seal results in the loss of Warranty.
- The costs of unjustifiable service call to a defect will be borne exclusively by the buyer. The unjustifiable service call is defined as a call to remove damages not resulting from the Guarantor's fault as well as a call considered unjustifiable by the service after diagnosing the device (e.g. damage of the equipment through the fault of the client or not subject to Warranty), or if the device defect occurred for reasons lying beyond the device.
- In order to execute the rights arising from this Warranty, the user is obliged, at his own cost and risk, deliver the device to the Guarantor along with a correctly filled-in warranty card (containing in particular the sale date, the seller's signature and a description of the defect) and sales proof (receipt, VAT invoice, etc.). The Warranty Card is the only basis for repair free of charge. The complaint repair time is 14 days.
- When the Warranty Card is lost or damaged, the manufacturer does not issue a duplicate.

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 regulator is not intended to be used by children.
- Any use other than specified by the manufacturer is forbidden.
- The device should be installed by a qualified person.
- Make sure the device is disconnected from the mains before performing any activities involving the power supply (plug-ging cables, installing the device etc.).

UE DECLARATION OF CONFORMITY

Hereby, we declare under our sole responsibility that EU-R-12s manufactured by TECH STEROWNIKI II Sp. z o.o., head-quartered in Wieprz Biała Droga 31, 34-122 Wieprz, is compliant with Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (EU OJ L 96, of 29.03.2014, p. 357), Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of Member States relating to electromagnetic compatibility (EU OJ L 96 of 29.03.2014, p.79), 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, PN-EN 60730-1:2016-10, EN IEC 63000:2018 RoHS.

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.

TECHNICAL DATA

- **Power supply:** 5V DC
- **Max. power consumption:** 0,1W
- **Operation temperature:** 5÷500C

The pictures and diagrams are for illustration purposes only. The manufacturer reserves the right to introduce some changes.

DESCRIPTION

The EU-R-12s room regulator is designed to cooperate with controllers EU-L-12, EU-ML-12 and EU-L-X WiFi. It should be installed in heating zone. The regulator sends current room temperature and humidity readings to the external controller, which uses the data to control thermostatic valves (opening them when the temperature is too low and closing them when the room temperature has been reached). Current temperature is displayed on the screen. The EXIT button enables the user to change the displayed parameter from current temperature to current humidity or floor temperature. The regulator enables the user to change the pre-set zone temperature permanently or for a period of time.

Controller equipment:

- built-in temperature sensor
- air humidity sensor
- floor sensor (optional)
- front panel made of glass

Central headquarters:

ul. Biata Droga 31, 34-122 Wieprz

Service:

ul. Skotnica 120, 32-652 Bulowice

phone: +48 33 875 93 80

e-mail: serwis@techsterowniki.pl



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References

- [eModul.eu](#)
- [User Manual](#)

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