



EN

USER'S MANUAL
EU-R-12s

TECH
CONTROLLERS

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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 IMMERSED 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.

.....
seller's stamp

.....
date of sale

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 (plugging 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., headquartered 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.**


Paweł Jura

Janusz Maister
Prezesi firmy

Wieprz, 20.10.2022



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÷50°C

*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-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).

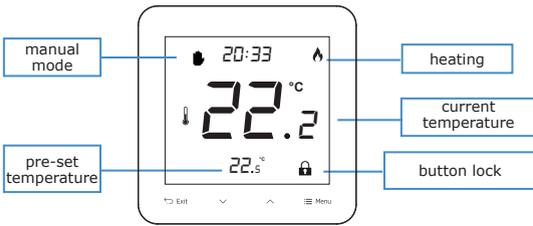
Current temperature is displayed on the screen. The EXIT button enables the user to change the displayed parameter from current temperature to current humidity or floor temperature.

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

1 HOW TO USE THE REGULATOR



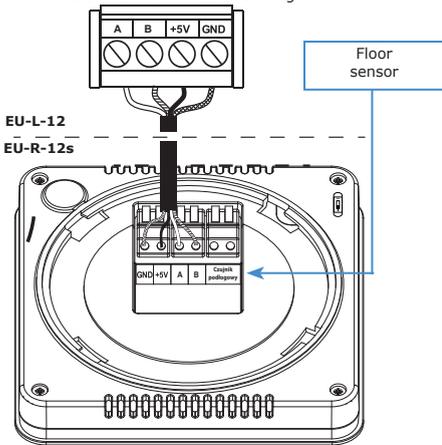
The device is controlled with the use of touch buttons: EXIT, ∇ , \wedge and Menu.

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

The buttons ∇ \wedge are used to change the settings and, when held simultaneously - to unlock the buttons.

3

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



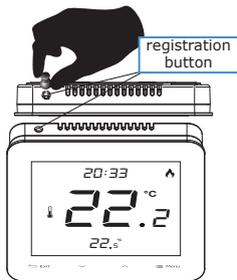
5 REGULATOR REGISTRATION

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**).



7 PRE-SET TEMPERATURE

The pre-set zone temperature may be adjusted directly from the EU-R-12s room regulator using the buttons ∇ \wedge .

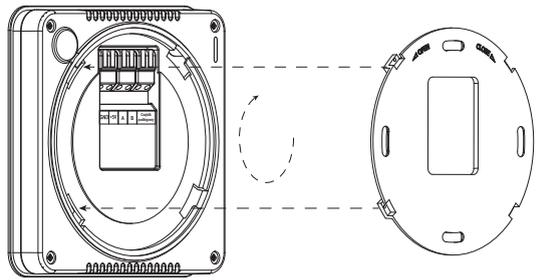
During inactivity, the current zone temperature is displayed on the controller screen. Use the buttons ∇ \wedge to change the set value. When the pre-set temperature has been defined, the setting screen will appear.

Time settings can be changed using the buttons ∇ \wedge :

- **for a specific number of hours** - click the button ∇ \wedge 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 \wedge 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.

2 INSTALLATION

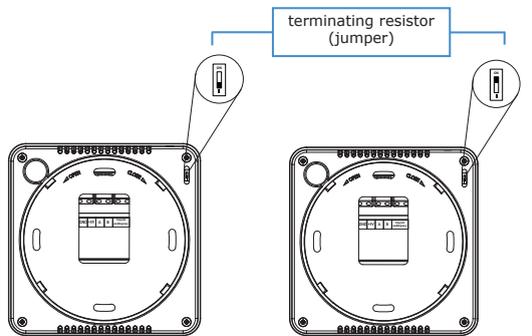
In order to connect the floor sensor or wires, remove the rear cover of the controller by twisting it slightly.



4

The system uses a terminating connection. In situations where the transmission line is long or communication problems occur, termination may be required.

In regulators equipped with a switch, set it to the ON position in the last regulator on the line, and in position 1 in the remaining regulators. In regulators without a switch, a 120 Ohm resistor should be used connected between signals A and B at the end of the line. 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.



6

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 ∇ \wedge (**manual mode**). In manual mode, hold the EXIT button in order to exit this mode.

8 MENU FUNCTIONS

Button auto-lock - after pressing the Menu button, the Loc auto-lock function will appear. Using one of the buttons ∇ \wedge 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 ∇ \wedge simultaneously until the lock icon disappears. In order to turn off the button auto-lock, press the Menu button again and use the buttons ∇ \wedge 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 ∇ \wedge 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 ∇ \wedge . Confirm by pressing the Menu button. After restoring the factory settings, it will be necessary to re-register the regulator to the external controller.