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ΕN

EU-294 v1, v2 **JAUNAM S'ABRU**





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 (OLE 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 (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 execut 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 sa

seller's stamp

date of sale

EU Declaration of conformity

Hereby, we declare under our sole responsibility that **EU-294 v1** 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 2014/35/EU of the European Parliament and of the counter of 2012 2014 on the harmonisation of the laws of Member States relating to the 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 equirements 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, harmonized standards were used: PN-EN IEC 60730-2-9:2019-06, PN-EN 60730-1:2016-10

PN-EN IEC 60730-2-9:2019-06, PN-EN 60730-1:2016-10 EN IEC 63000:2018 RoHS.

Wieprz, 08.04.2020

Pawer Jura Marth Jorg Janusz Master Prezesi firmv

Safetv

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

- High voltage! Make sure the regulator is disconnected from
- Figh voltage: 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. Before starting the controller, the user shoud measure earthing resistance of the electric motors as well as the insulation resistance of the cables. The regulator should not be operated by children.

Radio module specifications EU-294v2

230V/+/-10%/50HZ
5ºC-50ºC
230V AC / 0.5A (AC1) *
24V DC / 0,5A (DC1) **

* AC1 load category: single-phase, resistive or slightly inductive AC load.
** DC1 load category: direct current, resistive or slightly inductive load.

EU Declaration of conformity

Hereby, we declare under our sole responsibility that **EU-294 v2** 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 (0J L 305, 21.11.2017, p. 8). 8).

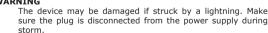
p. 8).
 For compliance assessment, harmonized standards were used:
 PN-EN IEC 60730-2-9 :2019-06 art. 3.1a Safety of use
 PN-EN EC 60730-2-9 :2019-06 art. 3.1a Safety of use
 ETSI EN 301 489-1 V2.2.3 (2019-11) art.3.1b Electromagnetic compatibility
 ETSI EN 301 489-3 V2.1.1:2019-03 art.3.1 b Electromagnetic compatibility
 ETSI EN 300 220-2 V3.2.1 (2018-06) art.3.2 Effective and coherent use of radio spectrum

of radio spectrum ETSI EN 300 220-1 V3.1.1 (2017-02) art.3.2 Effective and coherent use of radio spectrum EN IEC 63000:2018 RoHS

Wieprz, 08.04.2020

Pawel Jura Charter Forth Janusz Master Prezesi firm

WARNING **A**:



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.



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.

If pump manufacturer requires an external main switch, power supply fuse or additional residual current device selective for distorted currents it is recomemnded not to connect pumps directly to pump control outputs. To avoid damaging to the device, an additional safety circuit must be used between the regulator and the pump. The manufacturer recommends the ZP-01 pump adapter, which must be purchased separately.

Description

Description EU-294 room regulator is intended for controlling the heating or cooling device (e.g. gas, oil or electric furnace or the CH boiler controller). Its main task is to maintain the pre-set temperature in the flat by sending a signal to the heating/cooling device (contact opening) when the desired

temperature is reached. EU-294 v1 has a built-in voltage-free contact and it communicates with the heating device via a wire. EU-294 v2 uses radio signal to send the open/close request to EU-290 M1 module which is connected to the heating device.

Installation

Remove the mounting base. Take out the terminal block:



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. VARNING

Incorrect connection of the wires may damage the controller!

Controller EU-294v1:



Controller EU-294v2:



Heating device nr boiler controller



NOTE

In case of no communication (e.g. because of flat battery) the receiver automatically deactivates the heating device after 15 minutes).

How to use the controller



1. Display

2. PLUS button 3. MINUS button

- 4. Icon
 flashing the set temperature has not been reached
 highlighted the set temperature has been reached

How to change communication channel

It is necessary to select the same communication channel in the room regulator and EU-290 M1 wireless module. Channel "35" is the default communication channel in both devices. It may be easily changed (if the current channel is used by other devices). To change the channel, follow these steps:

STEP 1 (found under the cover) until the green control light 1 goes on.

STEP 2

Press the channel change button on the room regulator (found on the back side of the regulator).

STEP 3

STEP 3 Use PLUS and MINUS button to select desired communication channel. When the number stops flashing (about 3 seconds after the last change), the change has been confirmed. The green control light in EU-290 M1 should go off indicating that the channel change process has been successful

Description of the functions available in the menu: To enter the controller menu, press and hold PLUS and MINUS bu These buttons can be used to switch between menu options. outtons.

These buttons can be used to switch between menu options. **1.Select operation mode** ,OUT' function enables the user to choose the regulator operation mode between heating (,HEA') and cooling (,Coo'). After selecting the ,OUT' function, the screen flashes for 3 seconds and then shows the operation modes available: (Coo, HEA). Use PLUS or MINUS to select the mode. Wait 3 seconds to confirm. Next, the display shows a temperature setting screen, enabling the user to adjust the temperature using PLUS and MINUS buttons. Wait 3 seconds to confirm. **NOTE** This option is available only in the case of the ST-294v1 regulator.

1 1 2. T1/T2 Min/max parameters of pre-set temperature This function enables the user to set the minimum T1 and the maximum T2 value of the pre-set temperature. After selecting this function, the screen flashes for 3 seconds. Use PLUS and MINUS buttons to select desired value. It will be confirmed automatically after 3 seconds.

3. Auto-lock Loc' function enables the user to activate the key lock. After selecting this function, the screen flashes for 3 seconds. Next, the user is asked if they want to activate the key lock (yes/no). Select the answer using PLUS and MINUS button. Wait 2 seconds to confirm. When the lock is active, the keys are locked after 10 seconds of inactivity. To unlock, press and hold PLUS and MINUS buttons. ,Ulc' message informs that the keys have been unlocked.

VER^{4.} Software version This option enables the user to view current software version.

GE F.Factory settings LOEF , Def' function enables the user to restore factory settings. After selecting this function, the screen flashes for 3 seconds. Next, the user is asked if they want to restore factory settings (ves/no). Select the answer using PLUS and MINUS button. Wait 3 seconds to confirm.
 CE TATE (The menu
 CE TATE (The selecting , Ret' option, the screen flashes for 2 seconds and exits the menu.

H 157. Hysteresis Hysteresis defines the pre-set temperature tolerance in order to prevent undesired oscillation in case of small temperature fluctuation within the range of 0,2 ÷ 4°C.

fluctuation within the range of 0,2 - + C. Example: Pre-set temperature: 23°C Hysteresis: 1°C The room temperature is considered too low when it drops to 22°C. In order to define the hysteresis value, press PLUS and MINUS simultaneously and hold it for about 1 minute. Use the buttons to set desired value. When the temperature stops flashing (about 3 seconds after the last change), the change has been confirmed.

B A Battery Bat' function enables the user to monitor the battery level (%). After selecting this option, the screen flashes for 3 seconds. Next, it displays the battery level given in percent.

9.Calibration ,Cal' function er Cal' function enables the user to calibrate the sensor within the range of -10°C to +10°C. After selecting this option, the screen flashes for 3 seconds. Next, it displays calibration setting. Use PLUS and MINUS to edit the value.



the regulator.



EU-294v2 room regulator is sold in a set including EU-290 M1 wireless module:

Connect the wire to the terminal block. Insert the terminal block into



1. Green control light 1 - indicates data reception, goes on during channel change; 2. Red control light – indicates receiver operation;

- A Green control light indicates receiver operation;
 Green control light 2 goes on when the room temperature fails to reach the pre-set temperature the heating device is switched on.
 Channel change button