TECH
CONTROLLERS

USER MANUAL

EU-RP-3

EN

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KN.20.02.28

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 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 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.

⚠ **NOTE**

- 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.

Changes in the merchandise described in the manual may have been introduced subsequent to its completion on February 28th 2020. The manufacturer retains the right to introduce changes to the structure. The illustrations may include additional equipment. Print technology may result in differences in colours shown.

Care for the natural environment is our priority. Being aware of the fact that we manufacture electronic devices obligates us to dispose of used elements and electronic equipment in a manner which is safe for nature. As a result, the company has received a registry number assigned by the Main Inspector of Environmental Protection. The symbol of a crossed out rubbish bin on a product means that the product must not be thrown out to ordinary waste bins. By segregating waste intended for recycling, we help protect the natural environment. It is the user's responsibility to transfer waste electrical and electronic equipment to the selected collection point for recycling of waste generated from electronic and electrical equipment.
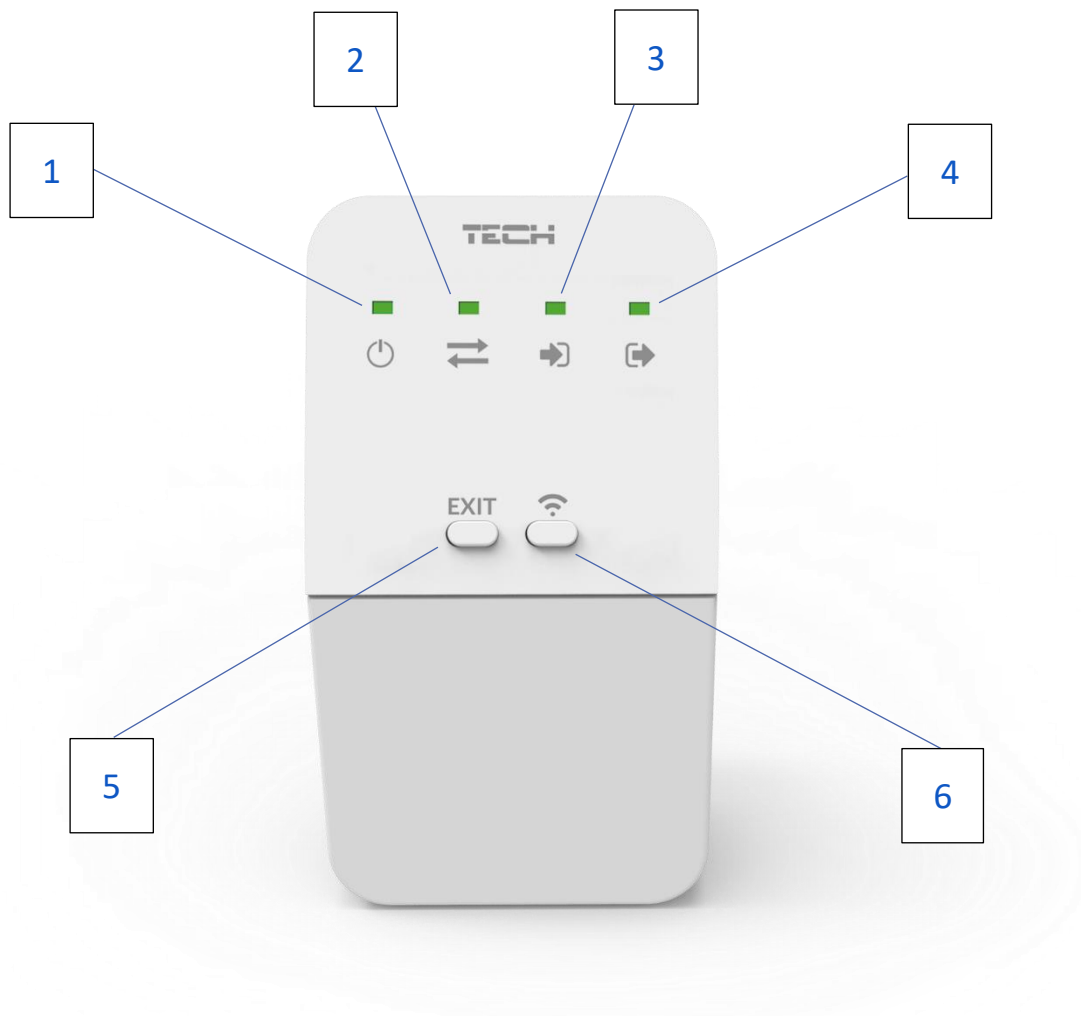
II. DESCRIPTION OF THE DEVICE

RP-3 Repeater is a wireless device which strengthens the network signal between registered devices in order to extend its range. The device works perfectly with connections that are constantly disturbed, e.g. through other devices operating on the same frequency or some solutions used in construction, e.g. concrete walls that suppress the signal.

Device properties:

- Wireless communication
- Possibility of handling 20 devices

1. Control light informing when the device is on
2. Wireless communication
3. Registration - step 1
4. Registration - step 2
5. Cancel
6. Registration button

III. HOW TO USE THE DEVICE

1.   REGISTRATION

In order to register devices in one repeater, follow these steps:

1. Connect RP-3 to the power supply socket.

2. Press the registration button on RP-3 – the control light no. 3 is flashing, the control light no. 4 lights up continuously.

3. Press the registration button on the transmitting device (e.g. C-8r or C-8rm sensor, room regulator etc.).

4. Once steps 2 and 3 have been performed properly, the device animation will change - the control light no. 3 will light up continuously and the control light no. 4 will start flashing.

5. Start the registration process on the receiving device (e.g. external controller/Wi-Fi 8s / ST-2807 / ST-8s etc.).

6. If the registration has been successful, the receiving controller will display an appropriate message and all the control lights on RP-3 will be flashing simultaneously for 5 seconds.

⚠️ **NOTE**

If control lights 3 and 4 light up continuously after the registration has been started, it means that the device memory is full (20 devices have already been registered).

⚠️ **NOTE**

It is possible to cancel the registration process at any time by pressing Cancel button and holding it for 5 seconds.

In order to enter factory settings mode, follow these steps:

1. Press and hold Cancel button for 10 seconds - the two outermost control lights will start flashing.

2. Press Registration button - all control lights will start flashing.

⚠️ **NOTE**

In order to cancel restoring the factory settings, press Cancel button.

⚠️ **NOTE**

Remember to pair with the repeater only those devices which have a signal problem. The range may get worse if you register devices that do not require a better signal.

2.   ADVANCED REGISTRATION

It is possible to connect many repeaters in a chain. In order to register another repeater, follow these steps:

1. Connect the first RP-3 to the power supply socket.

2. Press the registration button on the first RP-3 – the control light no. 3 is flashing, the control light no. 4 lights up continuously.

3. Press the registration button on the transmitting device (e.g. C-8r or C-8rm sensor, room regulator etc.).

4. Once steps 2 and 3 have been performed properly, the device animation will change - the control light no. 3 will light up continuously and the control light no. 4 will start flashing.

5. Connect the second RP-3 to the power supply socket.

6. Press the registration button on the second RP-3 – the control light no. 3 is flashing, the control light no. 4 lights up continuously.

7. Once steps 5 and 6 have been performed properly, the second device animation will change after a few seconds - the control light no. 3 will light up continuously and the control light no. 4 will start flashing, and all the control lights on the first RP-3 will start flashing simultaneously for 5 seconds.

8. Start the registration process on the receiving device (e.g. external controller/Wi-Fi 8s / ST-2807 / ST-8s etc.).

9. If the registration has been successful, the receiving controller will display an appropriate message and all the control lights on the second RP-3 will be flashing simultaneously for 5 seconds.

In order to register another device, follow the same steps.

⚠ **NOTE**

In the case of battery-powered devices, it is not advisable to create chains consisting of more than two repeaters.

⚠ **NOTE**

Registering STT-869 thermoelectric actuator with more than two repeaters will cause a communication error with the controller.

IV. TECHNICAL DATA

Specification	Value
Supply voltage	230V / +/-10%/50Hz
Ambient temperature	5°C - 50°C
Maximum power consumption	< 1W
Operating frequency	868MHz
Max. transmission power	25mW

EU Declaration of Conformity

Hereby, we declare under our sole responsibility that **EU-RP-3** manufactured by TECH, headquartered 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;

- the regulation by the Ministry of Economy of May 8, 2013 'concerning the essential requirements as regards the restriction of the use of certain hazardous substances in electrical and electronic equipment', implementing provisions of **ROHS** directive **2011/65/EU.**

For compliance assessment, harmonized standards were used:
PN-EN IEC 60730-2-9 :2019-6 par. 3.1a Safety of use
ETSI EN 301 489-1 V2.1.1 (2017-02) par.3.1b Electromagnetic compatibility
ETSI EN 301 489-3 V2.1.1 (2017-03) par.3.1 b Electromagnetic compatibility
ETSI EN 300 220-2 V3.1.1 (2017-02) par.3.2 Effective and coherent use of radio spectrum
ETSI EN 300 220-1 V3.1.1 (2017-02) par.3.2 Effective and coherent use of radio spectrum

Wieprz, 28.02.2020

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