TECH CONTROLLERS

USER MANUAL

EU-RP-4

EN

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KN.20.10.07

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

- **A live electrical device!** Make sure the device 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.
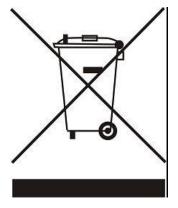- The regulator should not be operated by children.

WARNING

- The device may be damaged if struck by a lightning. Make sure the plug is disconnected from the power supply during storm.
- The device should be protected against water spill, moisture or getting wet.
- The device should be stored away from heat sources, in a place with proper air circulation.

Changes in the merchandise described in the manual may have been introduced subsequent to its completion on 7 Oct 2020. The manufacturer retains the right to introduce changes to the structure or colours. The illustrations may include additional equipment. Print technology may result in differences in the colours shown.

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 waste 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.

II. DEVICE DESCRIPTION

The RP-4 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.

Features of the device:

- Wireless communication
- Supporting up to 30 devices

III. HOW TO USE THE DEVICE

1. REGISTRATION

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

1. Connect RP-4 to the power supply socket.

2. Press the registration button on RP-4 – the control lights are flashing clockwise.

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

4. Once steps 2 and 3 have been performed properly, the device animation will change - the control lights will start flashing anti-clockwise.

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 to confirm and all the control lights on RP-4 will be flashing simultaneously for 5 seconds.

⚠️ **NOTE**

If all control lights start flashing very fast after the registration has been started, it means that the device memory is full (30 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 restore factory settings, disconnect the device from the power supply. Next, holding the button, connect the device to the power supply and wait until an intermittent light signal appears (two control lights start flashing). Next, release the button and press it again (four control lights start flashing). Factory settings have been restored, all control lights go on at the same time.

⚠️ **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 SETTINGS

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

1. Connect the first RP-4 to the power supply socket.

2. Press the registration button on the first RP-4 – the control lights are flashing clockwise.

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

4. Once steps 2 and 3 have been performed properly, the device animation will change - the control lights will start flashing anti-clockwise.

5. Connect the second RP-4 to the power supply socket.

6. Press the registration button on the second RP-4 – the control lights are flashing clockwise.

7. Once steps 5 and 6 have been performed properly, the second device animation will change after a few seconds - the control lights will start flashing anti-clockwise, and the control lights on the first RP-4 will be 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 to confirm and all the control lights on the second RP-4 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.

IV. TECHNICAL DATA

Specification	Value
Supply voltage	230V +/-10% / 50Hz
Operation temperature	5°C - 50°C
Maximum power consumption	1W
Frequency	868MHz
Max. transmit power	25mW

TECH CONTROLLERS

EU Declaration of conformity

Hereby, we declare under our sole responsibility that **EU-RP-4** manufactured by TECH, 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 (OJ L 305, 21.11.2017, p. 8).

For compliance assessment, harmonized standards were used:

PN-EN IEC 60730-2-9 :2019-06 par.3.1a Safety of use

ETSI EN 301 489-1 V2.1.1 (2017-02) par.3.1 b 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, 07.10.2020

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