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# TECH CONTROLLERS USER'S MANUAL EU-F-8z



## 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.** The costs of unjustifi able service call to a defect will be borne exclusively by the buyer. The unjustifi able service call is defi ned as a call to remove damages not resulting from the Guarantor's fault as well as a call considered unjustifi able 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 fi lled-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 diff erent 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 device should be installed by a qualified electrician.
  - The regulator is not intended to be used by children.
  - It is a live electrical device. Make sure the regulator is disconnected from the mains before performing any activities involving the power supply (plugging cables, installing the device etc.).
  - Any use other than specified by the manufacturer is forbidden.

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.



## EU DECLARATION OF CONFORMITY

Hereby, we declare under our sole responsibility that **EU-F-8z** 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 (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 EN IEC 63000:2018 RoHS.

*Paweł Jura*  
Paweł Jura  
*Janusz Master*  
Janusz Master  
Prezesi firmy


Wieprz, 15.04.2021

## TECHNICAL DATA

Power supply	230 ±10% /50Hz
Max. power consumption	0,1W
Humidity measurement range	10-95%RH
Temperature adjustment range	5°C÷35°C
Operation frequency	868MHz

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

## DESCRIPTION

The EU-F-8z room regulator is intended to be used with external controllers. It should be installed in heating zones. The regulator sends current temperature and humidity readings from a given zone to the external controller. Based on the data, the external controller manages the thermostatic valves (opening them when the temperature is too low and closing them when the pre-set temperature has been reached). Current temperature is displayed on the main screen. In order to display current humidity value, press the Menu button  (in the middle).

### Controller equipment:

- built-in temperature sensor
- air humidity sensor
- intended to be mounted in a frame
- front panel made of glass

Examples of compatible frames:

**TECH Controllers dedicated glass frame - Sinum FG**

or

Berker - S.1, B.1, B.3, B.7

Jung - AS, A500, A PLUS, A CREATION

Gira - STANDARD 55, E2, EVENT, ESPRIT, PROFIL55, E22

SIEMENS - DELTA LINE, DELTA VITA, DELTA MIRO,

Kopp - ALASKA

SCHNEIDER - SYSTEM M-PLAN, SYSTEM M-ELEGANCE, M-PURE, M-SMART

**!** Before purchasing a given frame, please check the dimensions carefully as the above list may change!

**We recommend purchasing the FG frame, which is dedicated to regulators manufactured by TECH Controllers.**

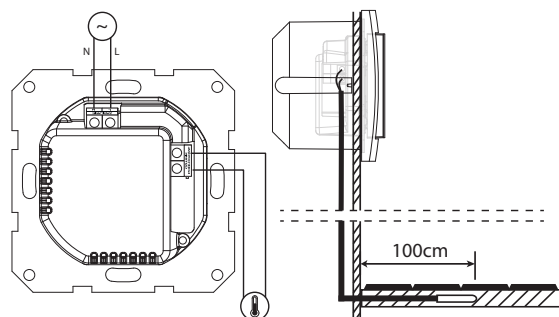
## HOW TO INSTALL

The regulator 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.
- Incorrect connection of wires may damage the regulator!

The diagram below illustrate how particular the regulator should be mounted:



## HOW TO REGISTER A REGULATOR

The room regulator must be registered in a zone.

In order to do it, go to the external controller menu and select Zones and Registration. Next, in the menu of the room regulator select the **rEg** function and press briefly the registration button on the right side of the regulator housing.

If the registration has been successful, the external controller display will show a message to confirm and **SCs** will be displayed on the regulator screen. **Err** displayed on the screen means that an error occurred during the registration process.







### ! NOTE

- To register the regulator, the buttons must be unlocked.
- Only one room regulator may be assigned to each zone.






### ! NOTE

In zone controllers, the room regulator may serve as a room sensor or a floor sensor. In order to register the device as a floor sensor, press the communication button on the regulator twice.

## HOW TO CHANGE PRE-SET TEMPERATURE




The pre-set zone temperature may be adjusted directly from the EU-F-8z room regulator using the buttons  and . During controller inactivity, the main screen displays current zone temperature. After pressing one of the buttons  or , the current temperature is replaced with the pre-set temperature (the digits are flashing). Using the buttons   the user may adjust the pre-set temperature value. About 3 seconds after setting the desired value, the display will show a screen enabling the user to define how long the new setting should apply.

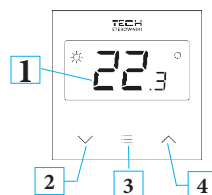
### Time settings may be adjusted with the use of buttons:

- **permanently** - press  until Con appears on  the screen (the pre-set value will apply all the time regardless of schedule settings);
- **for a specified number of hours** - press one of the buttons   until the desired number of hours appears on the screen e.g. 01h (the pre-set value will apply for the specified period of time; after that the weekly schedule will apply);
- if the temperature value defined in the weekly schedule settings should apply, press  until the screen displays **OFF**.

## HOW TO USE THE CONTROLLER

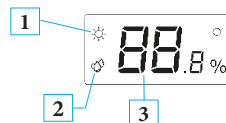
### • REGULATOR DESCRIPTION

1. Display - current room temperature/humidity
2. Button 
3. Button 
4. Button 



### • DISPLAY DESCRIPTION

Current temperature is displayed on the screen. Use the Menu button (in the middle) to display current humidity.



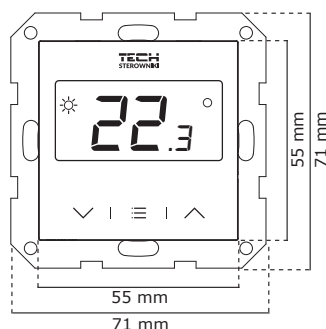
1. Sun icon

- **highlighted** - the set temperature has not been reached and the zone is being heated.

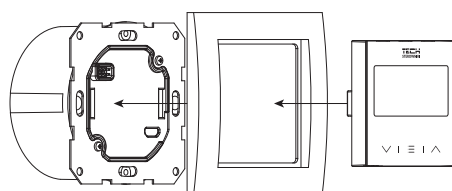
- **no icon** - no heating required

2. Humidity icon

3. Current humidity



How to install particular elements:

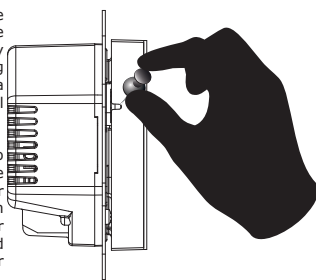


### The following rules must be kept in mind:




- Once registered, the regulator cannot be unregistered, but only disabled by selecting OFF in the submenu of a given zone in the external controller.

- If the user attempts to assign a regulator to the zone to which another 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 regulator which has already been assigned to a different zone, the regulator is unregistered from the first zone and registered in the new one.





## MENU FUNCTIONS




In order to enter the menu, press and hold . Next, use the buttons   to switch between functions.

**1. Cal** - this function enables the user to check the sensor calibration value. After selecting this option, the screen flashes for 3 seconds. Press the Menu button to view the calibration settings.

**2. Loc** - this 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 one of the buttons  . In order to confirm, wait 3 seconds or press  or .

To unlock, press and hold the buttons  . **Ulc** displayed on the screen means that the keys have been unlocked.

**3. rEg** - this function enables the user to register the regulator in a zone - 1 press or as a floor sensor - 2 presses.

**4. Def** - This function allows you to restore factory settings. After entering the Def function, the screen flashes for 3 seconds. Press the Menu button and select Yes/No using the button . To confirm your selection, wait 3 seconds or press the   Menu button.

**5. Ret** - after selecting this option, the screen flashes for 3 seconds and exits the menu.

### ! NOTE

To display the program version number, press and hold the button on the right side of the controller housing.