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EN-F-4Z V1 **JAUNAM 2'83SL**

CONTROLLERS

CONTROLLERS

SAFETY

Before using the device for the fi rst 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.



EN

WARNING

- The device should be installed by a qualified person.
- The regulator is not intended to be used by children.
- Any use other than specified by the manufacturer is forbidden.

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 cables may lead to controller damage.



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-4z v1** manufactured by TECH, 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 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.

Wieprz, 03.12.2020



DESCRIPTION

The EU-F-4z v1 room regulator is intended for controlling the heating device. Its main task is to maintain the pre-set room temperature by sending a signal to the heating device when the room temperature has been reached

Functions of the regulator:

- Maintaining pre-set room temperature
- Manual mod Day/Night mode
- Weekly control
- Floor heating control (optional an additional temperature sensor is necessary)

Controller equipment:

- Touch buttons
- Front panel made of glass
 Built-in temperature and humidity sensor
 Intended to be mounted in a frame

Current temperature is displayed on the screen. Hold the EXIT button to display current humidity.

TECHNICAL DATA

Power supply	230V ±10%/50Hz
Max. power consumption	0,5W
Potential-free cont. nom. out. load	230V AC / 0,5A (AC1) * 24V DC / 0,5A (DC1) **
Humidity measurement range	10-95% RH
Room temperature adjustment range	5ºC ÷ 35ºC

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

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



Use **EXIT** to activate weekly control or day/night mode and to deactivate manual mode. In the controller menu, use this button to confirm new settings and return to the main screen view.

to activate manual mode and decrease the pre-set temperature In the controller menu, use this button to adjust parameter settings.

to activate manual mode and increase the pre-set temperature value. In the controller menu, use this button to adjust parameter settings.

Use MENU – to enter the controller menu. While editing parameters, press MENU to confirm changes and move on to edit another parameter.

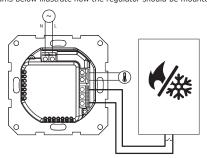
HOW TO INSTALL THE CONTROLLER

The regulator should be installed by a qualified person.



- 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 diagrams below illustrate how the regulator should be mounted:



OPERATION MODES

The room regulator may operate in one of three different modes:

* Cpay/night mode - the pre-set temperature depends on the time of day - the user sets a separate temperature for the day and night (comfort temperature and economical temperature), as well as the time when the controller will enter each mode.

Weekly control mode - the controller enables the user to create 9 different programs divided into 3 groups:

- $PROGRAMS\ 1\div3$ daily temperature values are set for all days of the week; $PROGRAMS\ 4\div6$ daily temperature values are set separately for the weekdays (Monday-Friday) and for the weekend (Saturday-Sunday); $PROGRAMS\ 7\div9$ daily temperature values are set for each day of the week separately.

Manual mode - the user sets the temperature manually directly from the main screen view. When the manual mode is activated, the previous operation mode enters sleep mode and remains inactive until the next pre-programmed change of the pre-set temperature. Manual mode can be disabled by pressing the EXIT button.

Automatic manual mode - this function enables manual mode control. If this function is active (ON), the manual mode is disabled automatically when a pre-programmed change resulting from the previous operation mode is introduced. If the function is disabled (OFF), the manual mode remains active regardless of the pre-programmed changes.

Weekly control - this function enables the user to set current weekly control program and edit the days and time when particular temperature value will apply.

HOW TO CHANGE THE WEEKLY PROGRAM NUMBER

Select this function and hold the MENU button. Every time you hold the button, the program number will change. Press EXIT to confirm - the controller will return to the main screen and the new setting will be saved.

- HOW TO SET DAYS OF THE WEEK
 - Programs 1÷3 it is not possible to select the day of the week
 - Programs 1+3 1 it is not possible to select the day of the week because the settings apply to each day. Programs 4+6 it is possible to edit working days and the weekend separately. Choose the group by pressing briefly the MENU button. Programs 7+9 it is possible to edit each day separately.
 - Choose the day by pressing briefly the MENU button.

Floor Floor sensor - this function is active in heating mode after connecting the floor sensor. In order to display specific parameters of the floor sensor, select ON.

Maximum floor temperature - this function is used to set the maximum pre-set floor temperature.

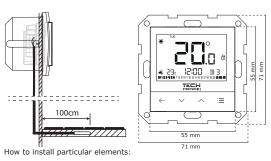
Minimum floor temperature - this function is used to set the minimum pre-set floor temperature.

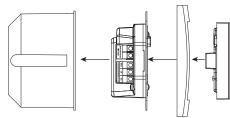
Floor temperature hysteresis - it defines the pre-set floor temperature

 $\textbf{Floor temperature calibration} \ - \ \text{it should be performed if the floor temperature measured by the sensor differs from the actual temperature}.$

Service menu - certain controller functions are secured with a code. They can be found in the service menu. In order to introduce changes in the service menu settings, enter the code - 215 (use arrows to select 2, hold the Menu button and follow in the same way with the remaining digits of the code). digits of the code).

- Heating/cooling mode (HEAT/COOL) this function enables the user to select the desired mode. If a floor sensor is used, the heating mode should be selected.
- Minimum pre-set temp. this function enables the user to set the
- minimum pre-set temp. this function enables the user to set the maximum pre-set temp. this function enables the user to set the maximum pre-set temp. this function enables the user to set the maximum pre-set temperature.





REGULATOR FUNCTIONS

In order to edit a parameter, select a corresponding icon. The remaining icons become inactive. Use the buttons and to adjust the icons become inactive. Use the buttons \checkmark and parameter. In order to confirm, press EXIT or MENU.

 $\ensuremath{\textbf{Day}}$ of the week - this function enables the user to set current day of the week.

 $igoplus \mathbf{Clock}$ - in order to set current time, select this function, set the time

⊕ *Day from... - this function enables the user to define the exact time of entering the day mode. When day/night mode is active, comfort temperature applies during the daytime.

 $\Theta^{\mbox{\it C}}$ Night from... - This function enables the user to define the exact time of entering the night mode. When day/night mode is active, economical temperature applies during nighttime

 $\begin{picture}(60,0)\put(0,0){\line(1,0){10}}\put(0,0){\line(1,0){10}$

Optimum start - fit involves constant monitoring of the heating system efficiency and using the information to activate the heating in advance in order to reach the pre-set temperatures. When this function is active, at the time of a pre-programmed change from comfort temperature to economical temperature or the other way round, the current room temperature is close to the desired value. In order to activate the function, select ON.

HOW TO SET TIME LIMITS FOR COMFORT AND ECONOMICAL TEMPERATURE

THEMPERATURE

The hour which is being edited is displayed on the screen. In order to assign comfort temperature, press the button . To assign economical temperature, press the button . You will automatically move on to edit the next hour.

The bottom strip of the screen shows weekly program parameters. If a given hour is displayed, it means that it has been assigned comfort

temperature. If it is not displayed, it means that it has been assigned economical temperature.

economical temperature.

*Pre-set comfort temperature - this function is used in weekly operation mode and day/night mode. Use the arrows to set the temperature. Confirm by pressing the MENU button.

Pre-set economical temperature - this function is used in weekly operation mode and day/night mode. Use the arrows to set the

Pre-set temperature hysteresis - it defines the pre-set temperature to prevent undesired oscillation in case of small temperature fluctuation.

For example, when the pre-set temperature is 23°C and the hysteresis is set to 1°C, the room regulator reports that the temperature is too low when the prometries of 22°C.

Temperature season.

Temperature sensor calibration - it should be performed while mounting or after the regulator has been used for a long time, if the room temperature measured by the internal sensor differs from the actual temperature.

- Optimum start this function displays the calculated value of temperature increase per minute.
- "--" optimum start has not been calibrated OFF no calibration since the last start FAIL calibration attempt failed but optimum start may work on the basis of the last successful calibration
- SCS calibration was successful CAL calibration in progress
- Factory settings select YES to restore factory settings.

NOTE

les of compatible frames

TECH Controllers dedicated glass frame - Sinum FG

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!

recommend regulators dedicated to **TECH**

purchasing the FG frame, regulators manufactured by Controllers.