



CONTROLLERS

Our company manufactures microprocessor devices for consumer electronics. We are the largest Polish manufacturer of controllers for CH boilers fired with solid fuels. We have been trusted by the leading CH boiler companies in Poland and abroad. Our devices are characterized by the highest quality and reliability, confirmed by many years of experience.

We specialize in designing and production of controllers for CH boilers fired with coal, fine coal, pellet, wood and biomass (oats, corn, dried seeds). Apart from that, we also manufacture regulators for refrigeration industry, solar systems, sewage treatment plants, mushroom farms, three- and four-way valves as well as room regulators and scoreboards for sports playfields.

We have already sold hundreds of thousands of various controllers and we are successfully expanding our offer, with the customer satisfaction being our top priority. The quality management system ISO 9001 and a number of certificates confirm the highest quality of our products.

The history of our company are, first of all, the people who create it, their knowledge, experience, involvement and persistence. Our plans for the future include maintaining good relations with our customers, acquiring new customers and developing new, high-quality products.

TABLE OF CONTENT

TWO-STATE ROOM REGULATORS	
EU-F-2z, EU-F-4z - for frame systems	6-7
EU-294, EU-T-2 - +/- wall mounted	8-9
EU-295, EU-T-3 - day/night wall mounted	12-13
EU-297, EU-297z - day/night flush mounted	14-15
EU-292, EU-T-4 - weekly wall mounted	18-19
INTERNET TWO-STATE ROOM REGULATORS	
EU-T-5z Wi-Fi- two-state with internet	22-23
EU-2x Wi-Fi- two-state with internet	
OPENTHERM INTERNET ROOM REGULATORS	
EU-2801 Wi-Fi- color, touch screen with internet and OPENTHERM	26-27
EU-Wi-Fi OT - internet and OPENTHERM	
ACCESSORIES	
Accessories	30-31
ACCESSUTES	3U-31
CONNECTION SCHEMES	
Connection schemes	32-34

ROOM REGULATORS



ROOM REGULATORS FOR FRAME SYSTEMS



230V POWERED VERSIONS

+ / - CONTROL in EU-F-2z

WEEKLY CONTROL in EU-F-4z

HEATING - COOLING MODE

OPTIONAL FLOOR SENSOR in EU-F-4z

WIRED or WIRELESS

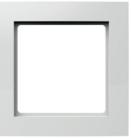


CREATE THE PERFECT COMBINATION OF STYLE IN YOUR HOME

Examples of compatible frame systems:

- Berker S.1, B.1, B.3, B.7
- Jung AS, A500, A PLUS, A CREATION
- Gira STANDART 55, E2, EVENT, ESPRINT, PROFIL55, E22
- SIEMENS DELTA LINE, DELTA VITA, DELTA MIRO
- SCHNEIDER SYSTEM M-PLAN, SYSTEM M-ELEGANCE, M-PURE, M-SMART









ROOM REGULATORS FOR FRAME SYSTEMS





2 colors available



2 colors available



EU-F-2z





Controller functions

- controlling room temperature +/with 0,1°C accuracy
- hysteresis range 0.2- 4°C
- key lock
- heating / cooling mode

Controller equipment

- glass front
- built in air temperature sensor
- LCD display, no backlit
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)
- built-in 230V power supply

List of compatible frame systems on page 5.

power / communication	230V 50Hz	wired 2 x 0,5mm²
dimensions [mm] / color	55 x 55 x 11	white, black

EU-F-4z





Controller functions

- controlling room temperature +/with 0,1°C accuracy
- weekly mode
- day/night mode
- optimum-start function
- possibility of connecting a **floor temperature sensor**
- hysteresis range 0.2- 4°C
- key lock
- heating / cooling mode

Controller equipment

- glass front
- built in air temperature sensor
- LCD display, **temporary backlit**
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)
- built-in 230V power supply

List of compatible frame systems on page 5.

power / communication	230V 50Hz	wired 2 x 0,5mm²
dimensions [mm] / color	55 x 55 x 11	white, black



+/- ROOM REGULATORS



2 colors available



2 colors available



EU-294



Controller functions

- controlling room temperature +/with 0,1°C accuracy,
- hysteresis range 0.2- 4°C,
- key lock,
- possibility to set limitation of the range of temperature changes
- sensor calibration
- heating / cooling mode

Controller equipment

- built in air temperature sensor
- 2 x AAA 1.5V batteries
- radio receiver with v2 version
- LCD display, no backlit

mounting plate

 NO-COM-NC non voltage 	relay
(max. load capacity 1A/	230V/A

power / communication 2 x AAA wired 2 x 0.5mm² ٧1 dimensions [mm] / color 80 x 80 x 24 white, black power / communication 2 x AAA wireless ٧2 dimensions [mm] / color 80 x 80 x 24 white, black

EU-T-2



Controller functions

- controlling room temperature +/with 0,1°C accuracy,
- hysteresis range 0.2- 4°C,
- key lock,
- possibility to set limitation of the range of temperature changes
- sensor calibration
- heating / cooling mode

Controller equipment

- · glass front
- built in air temperature sensor
- 2 x AAA 1.5V batteries
- radio receiver with 2.2 version
- mounting plate
- LCD display, no backlit
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)

2.1	power / communication	2 x AAA	wired 2 x 0,5mm²
	dimensions [mm] / color	84 x 84 x 26	white, black
0.0	power / communication	2 x AAA	wireless
2.2	dimensions [mm] / color	84 x 84 x 15	white, black



DAY / NIGHT ROOM REGULATORS



HEATING - COOLING MODE

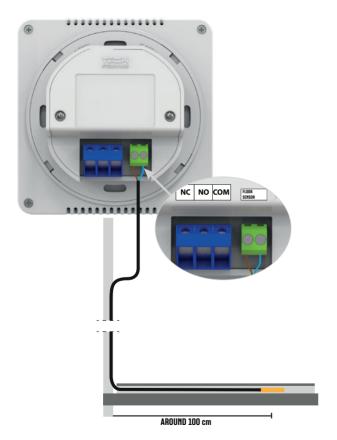
OPTIONAL FLOOR TEMPERATURE SENSOR

WALL or FLUSH MOUNTED VERSIONS

BATTERIES or **230V POWERED** VERSIONS

NEGATIVE DISPLAY*

FLOOR TEMPERATUR SENSOR



When using an additional floor temperature sensor, the room regulator will control the room temperature taking into account the additional floor temperature (set the minimum and maximum floor temperature). Among other things, we can prevent the floor from cooling down in well-sunny rooms and maintain the floor temperature at a fixed level, for example in bathrooms.



MAXIMUM TEMPERATURE

in the range of 20°C - 45°C



HYSTERESIS

in the range of 0.2°C - 5°C



MINIMUM TEMPERATURE

in the range of 10°C - 30°C

* ranges may differ depending on the controller version



DAY / NIGHT WALL MOUNTED ROOM REGULATORS





2 colors available







Controller functions

- controlling room temperature +/with 0,1°C accuracy
- hysteresis range 0.2- 8°C
- day / night mode
- manual mode
- additional control based on floor temperature (in case of using NTC floor sensor - not included)

Controller equipment

- PVC front
- built in air temperature sensor
- 2 x AAA 1,5V batteries
- radio receiver with v2 version
- mechanical buttons
- LCD display, temporary backlit
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)

1	power / communication	2 x AAA	wired 2 x 0,5mm²
v1	dimensions [mm] / color	95 x 95 x 24	white
0	power / communication	2 x AAA	wireless
v2	dimensions [mm] / color	95 x 95 x 24	white





Controller functions

- controlling room temperature +/with 0,1°C accuracy
- hysteresis range 0.2- 5°C
- day / night mode
- manual mode
- key lock
- additional control based on floor temperature (in case of using NTC floor sensor - not included),
- · heating / cooling mode

Controller equipment

- glass front
- built in air temperature sensor
- 2 x AAA 1,5V batteries
- touch buttons
- LCD display, temporary backlit
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)

power / communication	2 x AAA	wired 2 x 0,5mm²
dimensions [mm] / color	84 x 84 x 26	white, black



DAY / NIGHT FLUSH MOUNTED ROOM REGULATORS





2 colors available



Flush mounted in Ø60mm electrical box

EU-297 V3





Controller functions

- controlling room temperature +/with 0,1°C accuracy
- hysteresis range 0.2- 5°C
- day / night mode
- manual mode
- key lock
- additional control based on floor temperature (in case of using NTC floor sensor - not included)
- heating / cooling mode

Controller equipment

- built in air temperature sensor
- · 2 x AAA 1,5V batteries
- touch buttons
- LCD display, temporary backlit
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)

power / communication	2 x AAA	wired 2 x 0,5mm2
dimensions [mm] / color	84 x 84 x 13	white, black

EU-297z v3





Controller functions

- controlling room temperature +/with 0,1°C accuracy
- hysteresis range 0.2- 5°C
- day / night mode
- manual mode
- key lock
- additional control based on floor temperature (in case of using NTC floor sensor - not included)
- heating / cooling mode

Controller equipment

- built in air temperature sensor
- touch buttons
- · built-in 230V power supply
- LCD display, temporary backlit
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)

power / communication	230V 50Hz	wired 2 x 0,5mm2	
dimensions [mm] / color	84 x 84 x 13	white, black	



WEELKY ROOM REGULATORS



DAY / NIGHT AND WEEKLY MODE

HEATING - COOLING MODE

OPTIONAL FLOOR TEMPERATURE SENSOR*

WALL and FLUSH MOUNTED

BATTERY and 230V POWERED

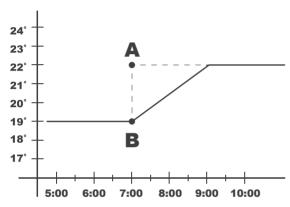
NEGATIVE DISPLAY**

* except for the EU-T-4 regulator,

**in black versions, except for EU-T-4 and EU-292 regulators

OPTIMUM START FUNCTION

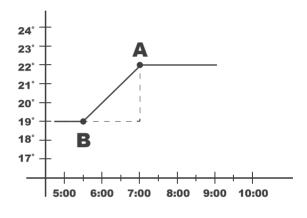
ROOM TEMPERATURE OPTIMUM START disabled:



A - Set temperature

B - Turning on the heating

ROOM TEMPERATURE OPTIMUM START activated:



A - Set temperature

B - Turning on the heating

This function enables intelligent control of the heating device, increases efficiency and provides better thermal comfort. The room regulator, learning by itself, will select the optimal boiler activation time in order to achieve thermal comfort, so that the room is heated to the set temperature for a pre-set time.



WEEKLY WALL MOUNTED ROOM REGULATORS





2 colors available





Controller functions

- controlling room temperature +/with 0,1°C accuracy
- hysteresis range 0.2- 8°C
- weekly schedule
- day / night mode
- manual mode
- Optimum Start function
- heating / cooling mode

Controller equipment

- built in air temperature sensor
- 2 x AA 1.5V batteries
- radio receiver with 4.2 version
- stand included with 4.2 version
- LCD display, temporary backlit
- · mechanical buttons
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)

. 1	power / communication	2 x AA	wired 2 x 0,5mm2
4.1	dimensions [mm] / color	134 x 95 x 24	white
	power / communication	2 x AA	wireless
4.2	dimensions [mm] / color	134 x 95 x 24	white



Controller functions

- controlling room temperature +/with 0,1°C accuracy
- hysteresis range 0.2- 8°C
- weekly schedule
- day / night mode
- manual mode
- Optimum Start function
- heating / cooling mode
- additional control based on floor temperature (in case of using NTC floor sensor - not included)

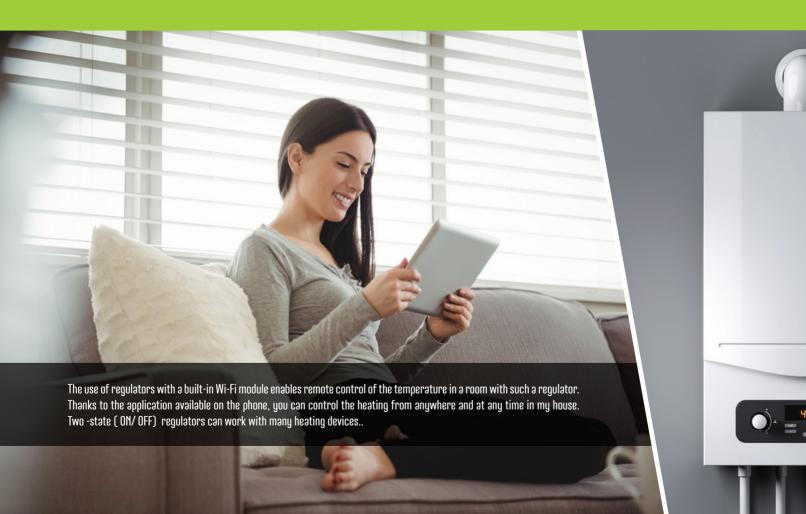
Controller equipment

- built in air temperature sensor
- 2 x AA 1.5V batteries
- radio receiver with v2 version
- stand included with v2 version
- LCD display, temporary backlit
- · glass front
- touch buttons
- NO-COM-NC non voltage relay (max. load capacity 1A/230V/AC)

	power / communication	2 x AA	wired 2 x 0,5mm2
v3	dimensions [mm] / color	121 x 95 x 24	white, black
0	power / communication	2 x AA	wireless
v2	dimensions [mm] / color	121 x 95 x 24	white, black



INTERNET TWO-STATE ROOM REGULATOR



OPENTHERM INTERNET REGULATOR



INTERNET TWO-STATE ROOM REGULATOR





EU-T-5z Wi-Fi

EU-T-5z Wi-Fi



Functions performed by the controller:

The standard controller (main controller + 1 temperature sensor) performs the functions of a two-state room regulator. After receiving a signal that the room is underheated, it sends a signal to start the heating device.

Controller equipment:

- 230V power supply
- wireless temperature sensor EU-C-mini
- · built in Wi-Fi module

power / communication	230V power supply	wireless	
dimensions [mm] / color	95 x 95 x 28	white	

Expandability:

- possibility of connecting wireless EU-C-mini, EU-CL-mini, EU-C-8r sensors or EU-R-8b, EU-R-8x, EU-R-8z, EU-R-8b PLUS, EU-R-8s PLUS, EU-R-8pb PLUS, EU-R-8pz PLUS room regulators.
- NO / NC relay output, possibility of pairing the EU-MW-1 wireless executive module
- possibility of connecting up to 6 wireless electric actuators **STT-868 / STT-869**
- possibility of connecting up to 6 wireless **EU-C-2n** window opening sensors
- the ability to update the software via the USB port
- support for the $\operatorname{EU-C-8}\operatorname{ZR}$ wireless outdoor sensor





INTERNET TWO-STATE ROOM REGULATOR





Check the app on the



EU-T-2x Wi-Fi

EU-T-2x Wi-Fi



Functions performed by the controller:

The controller (temperature regulator + wireless actuator module with built-in Wi-Fi) functions as a two-state room thermostat. Upon receiving a signal indicating insufficient room heating, it sends a signal to the module to activate the heating device.

Regulator function:

- \bullet controlling room temperature +/- with 0,1°C accuracy,
- hysteresis range 0.2- 4°C,
- key lock,
- sensor calibration
- heating / cooling mode

Module function:

- built-in Wi-Fi module
- voltage-free NO-COM-NC contact
- · possibility of control via eModul



power / communication	2x AA 1,5V DC	wireless	
dimensions [mm] / color	81 x 81 x 21	white	

power / communication	230V power supply	wireless
dimensions [mm] / color	95 x 95 x 31	white



INTERNET ROOM REGULATOR



2 colors available







EU-2801 WI-FI







Controller functions

- intelligently maintaining the set room temperature
- intelligent control of the set temperature of the central heating boiler
- change of the preset boiler temperature based on the outside temperature (weather control)
- \bullet viewing the outside temperature
- · Wi-Fi communication
- · weekly schedule of room heating and boiler
- displaying information about heating device alarms
- access to the temperature charts of the heating device
- alarm clock
- parental lock

Controller equipment

- large, easy to read, color, touchscreen display
- built in air temperature sensor
- flush mounted in Ø60mm electrical box
- EU-C-mini wireless temperature sensor

The controller works in the OpenTherm+ standard 4.0 version

Principle of operation

The use of a room regulator ensures intelligent maintenance of the set room temperature through automatic proportional regulation of the set temperature of the boiler. The controller can adjust the parameters of the control algorithm by the user. The device is compatible with the OpenTherm / plus (OT +) and OpenTherm / lite (OT -) protocols.







INTERNET ROOM REGULATOR



EU-WI-FI OT



Controller functions

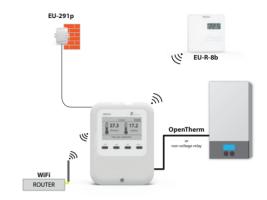
- intelligently maintaining the set room temperature
- intelligent control of the set temperature of the central heating boiler
- change of the preset boiler temperature based on the outside temperature (weather control)
- viewing the outside temperature
- weekly schedule of room heating and boiler
- displaying information about heating device alarms
- access to the temperature charts of the heating device
- · Wi-Fi communication

Controller equipment

- large, easy to read display
- EU-R-8b wireless room regulator
- EU-291p NTC wired outdoor temperature sensor

The controller works in the OpenTherm+ standard 4.0 version









ACCESSORIES



Executive module

- Switching the device on and off
- 868MHz wireless communication
- NO COM NC potential free contact
- the ability to change the channel

Used with regulators:

- EU-294 v2
- EU-292 v2



Executive module

- · Switching the device on and off
- 868MHz wireless communication
- NO COM NC potential free contact
- direct pairing

Used with regulators:

- EU-295 v2
- EU-283C Wi-Fi



Executive module

- Switching the device on and off
- 868MHz wireless communication
- NO COM NC potential free contact
- direct pairing

Used with regulators:

- EU-293 v2
- EU-293z v2
- EU-297 v2
- EU-297z v2
- EU-F-2z v2
- EU-F-4z v2
- EU-F-42 V2
- EU-T-3.2
- EU-T-4.2

ACCESSORIES



NTC floor sensor

- \bullet floor temperature measurement +/- with an accuracy of 0.1 $^{\circ}$ C
- two-core cable
- available in lengths of 150 cm and 250 cm

Cooperates with:

- EU-F-4z
- EU-T-3
- EU-295
- EU-292
- EU-293
- EU-297



EU-C-8zr Outdoor sensor

- external temperature measurement
- 868MHz wireless communication
- direct pairing

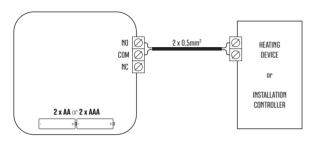
Cooperates with:

• EU-293z v2

Power supply: 2xAAA (included)

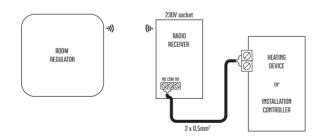
CONNECTION SCHEMES

Connecting a wired two-state controller to a heating device:



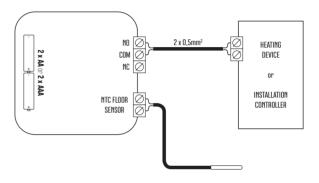
Applies to: EU-294 v3, EU-T-2.1

Connecting a wireless two-state controller to a heating device:



Applies to: EU-294 v2, EU-292 v2, EU-295 v2, EU-297 v2, EU-297z v2 EU-293 v2, EU-293z v2, EU-T-2.2, EU-T-3.2, EU-T-4.2, EU-F-2z v2, EU-F-4z v2, EU-283C Wi-Fi

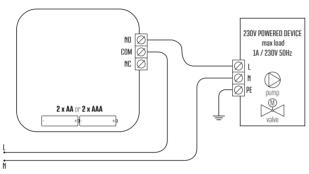
Connecting a wired two-state controller to a heating device:



Applies to: EU-292 v3, EU-295 v3, EU-297 v3, EU-293 v3, EU-T-3.2, T-4.2,

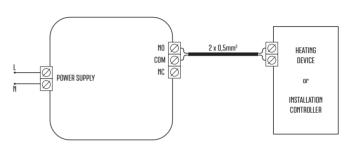
CONNECTION SCHEMES

Connecting a wired two-state controller to a voltage device:

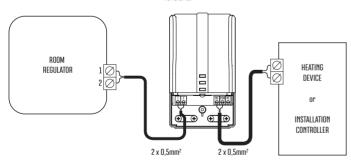


Applies to all regulators with a voltage free contact in wired and wireless versions.

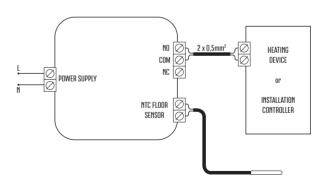
Connecting a wired two-state regulator power supplied with 230V to a heating device:



Applies to: EU-F-2z



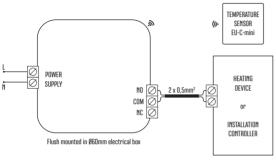
Applies to: EU-283



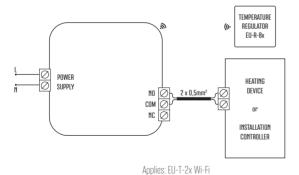
Applies to: EU-297z v3, EU-293z v3, EU-F-4z

CONNECTION SCHEMES

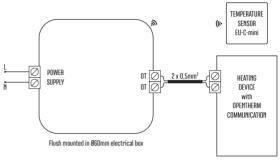
Connecting a wired internet controller to the heating device:



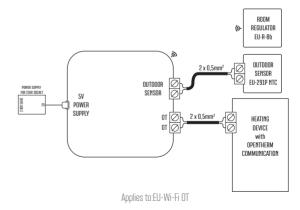
Applies: EU-T-5z Wi-Fi



Connecting a wired regulator with OPENTHERM communication to a heating device:



Applies to: EU-2801 Wi-Fi



Notes			







ul. Biała Droga 31, 34-122 Wieprz tel. +48 33 330 00 07, fax. +48 33 845 45 47 poczta@techsterowniki.pl, www.tech-controllers.com



Printed 02/2025