



TECH
CONTROLLERS

ABOUT US

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.

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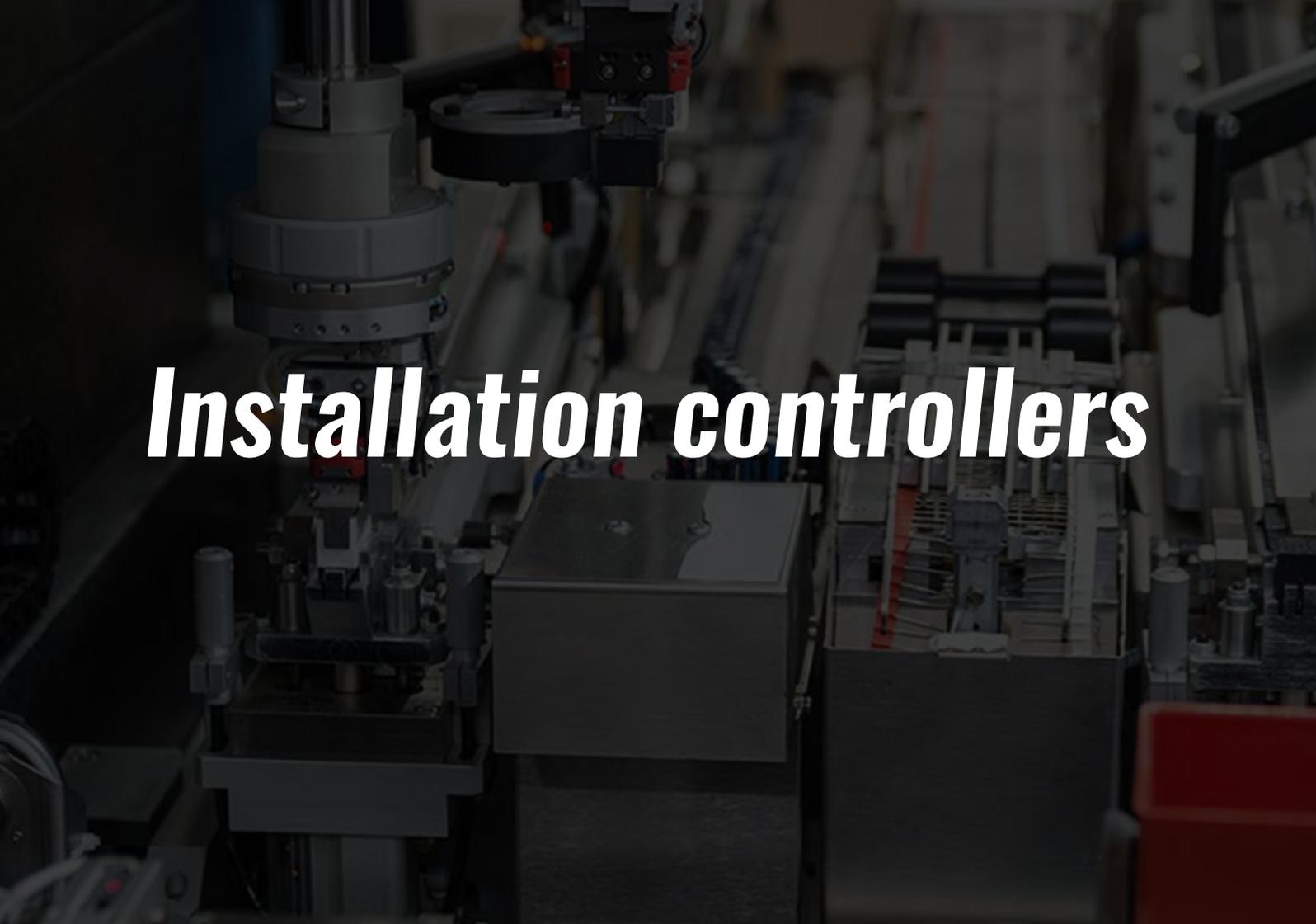
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The background of the image is a dark, blurred photograph of an industrial manufacturing environment. It shows various mechanical components, pipes, and machinery, with a prominent vertical shaft and a horizontal arm in the upper left. The overall scene is dimly lit, emphasizing the metallic textures and complex structure of the equipment.

Installation controllers

EU-19, 20, 21

PUMP CONTROLLERS



Power	230V 50Hz
Pump output load	1 A
Temperature setting range	25°C - 85°C
Temp. measurement accuracy	+/- 1°C
Dimensions [mm]	137 x 96 x 40

Functions

- CH pump control

Equipment

- CH temperature sensor

EU-19

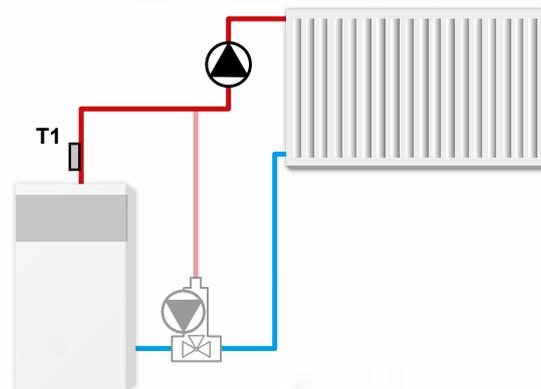
- anti-stop function
- potentiometer for setting the desired temperature

EU-20

- potentiometer for setting the desired temperature

EU-21

- possibility as thermostat operation
- anti-stop function
- anti-freeze function
- possibility of setting temperature of pump activation and deactivation minimal operation temperature: -9°C
- LED display



EU-21 CWU, EU-21 BUFOR

PUMP CONTROLLERS



Power	230V 50Hz
Pump output load	1 A
Temperature setting range	25°C - 85°C
Voltage-free contact load	1A / 230 V / AC
Temp. measurement accuracy	+/- 1°C
Dimensions [mm]	110 x 163 x 57

Functions

- DHW pump control
- anti-stop function
- anti-freeze function
- control of the voltage-free output
- possibility of defining pump activation delta
- protection against DHW tank cooling

Equipment

- LED display
- two temperature sensors

Principle of operation

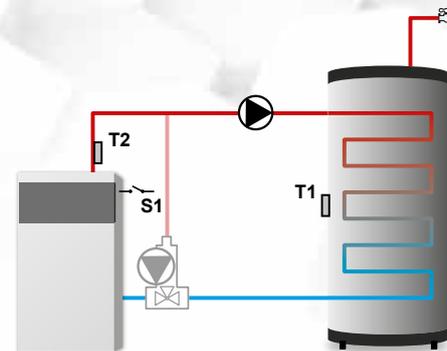
EU-21 DHW regulator is a multi-purpose controller equipped with two temperature sensors, intended for controlling DHW tank pump. The controller activates the pump when the **temperature difference between the two sensors exceeds set value ($T1 - T2 \geq \Delta$)**, provided that **$T2 \geq$ Minimum threshold of pump activation**.

The pump is deactivated when **$T2 \leq T1 + 2^\circ\text{C}$** or when **$T1 <$ Minimum threshold of pump activation $- 2^\circ\text{C}$ (constant hysteresis value)** or when **$T2$ reaches the set value**. Key: T1 – CH boiler temperature T2 – DHW tank temperature (buffer).

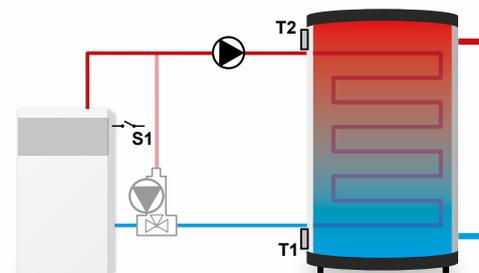
It prevents unnecessary pump operation as well as unintended cooling down of the DHW tank when the water supply temperature drops. This, in turn, helps to save electricity and prolongs the life of the pump. Consequently, the device is more reliable and economical.

EU-21 DHW regulator is equipped with a system preventing pump stalling during long standstill. The pump is switched on for 1 minute every 10 days. Additionally, the controller is equipped with anti-freeze function. When the temperature of CH boiler sensor or DHW tank sensor drops below 6°C , the pump is activated permanently. It is switched off when the circuit temperature reaches 7°C .

EU-21 CWU



EU-21 BUFOR



EU-11

DHW CIRCULATION REGULATOR

Voltage supply	230V / 50Hz
Maximum power consumption	< 3W
Load	1A
Fuse	1.6 A
Operating pressure	1-8 bar
Maximum flow	1 liter/min.
Operating temperature	5°C - 60°C

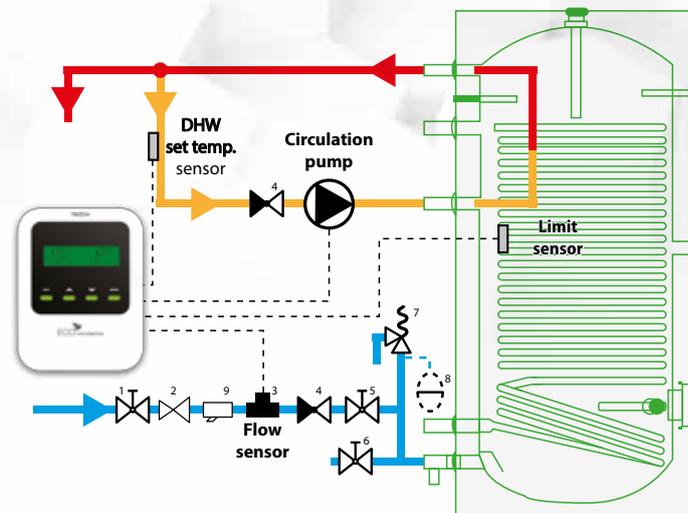


Functions

- controlling circulating pump operation
- monitoring the pre-set temperature in a heating circuit
- smart control of the circulation system
- protection against overheating (DHW pump activation)
- anti-stop function
- adjustable pump operation time

Equipment

- 2 temperature sensors
- flow sensor
- LCD display



Principle of operation

DHW circulation regulator is intended for controlling DHW circulation to suit individual user's needs. In an economical and convenient way, it reduces the time needed for hot water to reach the fixtures. It controls the circulating pump which, when the user draws water, accelerates the flow of hot water to the fixture, exchanging the water there for hot water at the desired temperature in the circulation branch and at the tap. The system monitors the temperature set by the user in the circulation branch and it activates the pump only when the pre-set temperature drops. Thus it does not generate any heat loss in the DHW system. It saves energy, water and equipment in the system (e.g. circulation pump). The circulation system operation is activated again only when hot water is needed and at the same time the pre-set temperature in the circulation branch drops. The device regulator offers all the functions necessary to adjust to various DHW circulation systems. It may control hot water circulation or enable the circulating pump in case of heat source overheating (e.g. in solar heating systems). The device offers pump anti-stop function (protecting against rotor lock) and adjustable working time of circulation pump (defined by the user).

EU-27i, 427i

CONTROLLER FOR TWO/THREE PUMPS



Power	230V 50Hz
Pumps output load	1A
Range of temperature setting	30°C - 70°C
Accuracy of temp. measurement.	+/- 1°C
Dimensions [mm]	125 x 200 x 55

Functions (EU-27i)

- CH pump control
- control of additional DHW or floor pump
- anti-stop function
- anti-freeze function

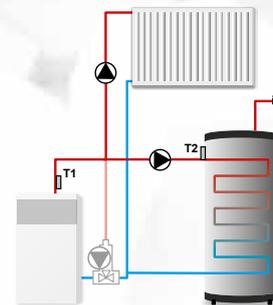
Principle of operation

EU-27i regulator is intended to control the operation of CH circulation pump and of the additional pump (DHW or floor pump). The controller's task is to switch the CH pump on if the temperature exceeds the threshold value of activation and to switch the pump off when the boiler cools down (e.g. as a result of burnout). For the second pump, apart from activation temperature, the user adjusts the set temperature up to which the pump will operate.

Equipment (EU-27i)

- LCD display
- CH temperature sensor T1
- additional pump temperature sensor T2
- control knob
- casing designed for mounting on the wall

EU-27i



Functions (EU-427i)

- time-based or temperature-based control of the three pumps
- anti-stop function
- anti-freeze function
- the possibility of setting any pump priorities
- possibility of connecting a room regulator with traditional communication (a two-state regulator – ON/OFF)

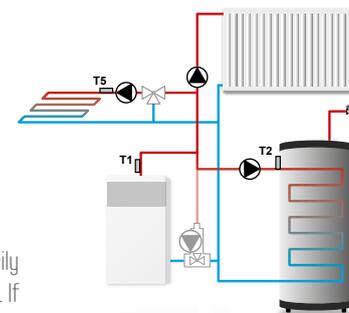
Principle of operation

EU-427i regulator is intended to control the operation of three pumps. The controller's task is to switch the pumps on (temporarily if the temperature exceeds the threshold value of activation) and off when the boiler cools down (e.g. as a result of burnout). If a selected pump is not a CH pump, turning off can be realized by signal from room regulator. Apart from activation temperature, the user adjusts the set temperature up to which the pump will operate. There is a possibility to set any priorities of the pumps' operation.

Equipment (EU-427i)

- LCD display
- three temperature sensors
- control knob
- casing designed for mounting on the wall

EU-427i



EU-i-1, EU-i-1 CWU

MIXING VALVE CONTROLLER



eModul

CONTROL VIA MOBILE APP
ADDITIONAL INTERNET MODULE NECESSARY



Power	230V 50Hz
Pump output load	0,5 A
Valve output load	0,5 A
Accuracy of temperature measurement	+/- 1°C
Dimensions [mm]	110 x 163 x 57



Functions

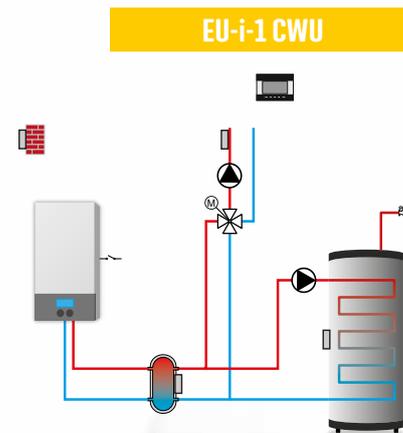
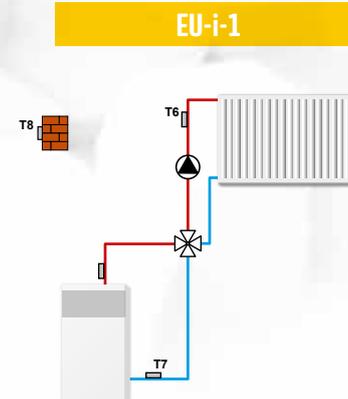
- smooth control of a three- or four-way valve
- control of valve pump operation
- **control of additional DHW pump (EU-i-1 CWU)**
- **control of voltage-free output (EU-i-1 CWU)**
- possibility of controlling two other valves using additional modules EU-431n or i-1
- compatible with modules EU-505 and WIFI RS - eModul application
- return temperature protection
- weather-based and weekly control
- compatible with room regulators using RS or two-state communication

Equipment

- LCD display
- CH boiler temperature sensor
- return temperature sensor and valve temperature sensor
- **DHW temperature sensor (EU-i-1 CWU)**
- external sensor
- wall-mountable housing

Principle of operation

The i-1 thermoregulator is designed to control a three-way or four-way mixing valve with the possibility of connecting additional valve pump. Optionally, this controller may cooperate with two modules, enabling the user to control up to three mixing valves. The i-1 DHW controller is designed to operate a three-way or four-way mixing valve with the option of connecting a valve pump and additional DHW pump as well as a voltage-free contact for a heating device.



EU-i-1m

MIXING VALVE MODULE

Power	230V 50Hz
Pump output load	0,5 A
Valve output load	0,5 A
Accuracy of temperature measurement	+/- 1°C
Dimensions [mm]	110 x 163 x 57



Functions

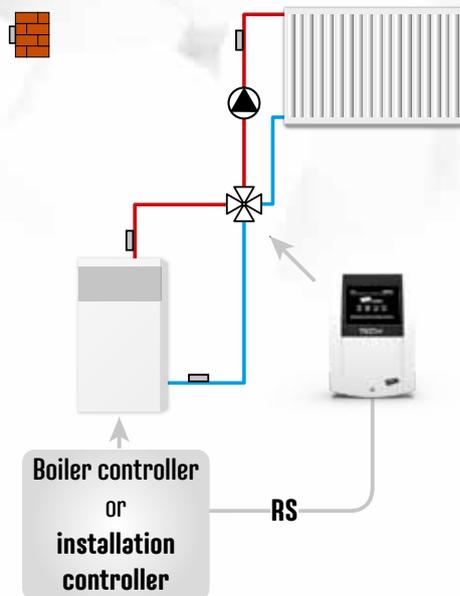
- smooth control of a three- or four-way valve
- control of valve pump operation
- cooperating with main controllers using RS communication

Equipment

- CH boiler temperature sensor
- valve temperature sensor
- return temperature sensor
- external sensor
- wall-mountable housing

Principle of operation

EU-i-1m expanding module is intended for controlling a three- or four-way valve by connecting it to the main controller.



EU-i-2, EU-i-3

INSTALLATION CONTROLLER



INSTALLATION CONTROLLERS

Modern low-energy houses require several alternative sources of heat. However, if you want the house to generate real savings, you need one system that will manage them. TECH heating controllers allow for efficient control of the heating system including multiple heat sources (e.g. solar collectors and CH boiler), thereby limiting energy consumption. Incorporating controllers into the heating system makes it easy for the user to operate all devices, helps to save time and money as well as ensures the best thermal comfort.

Functions

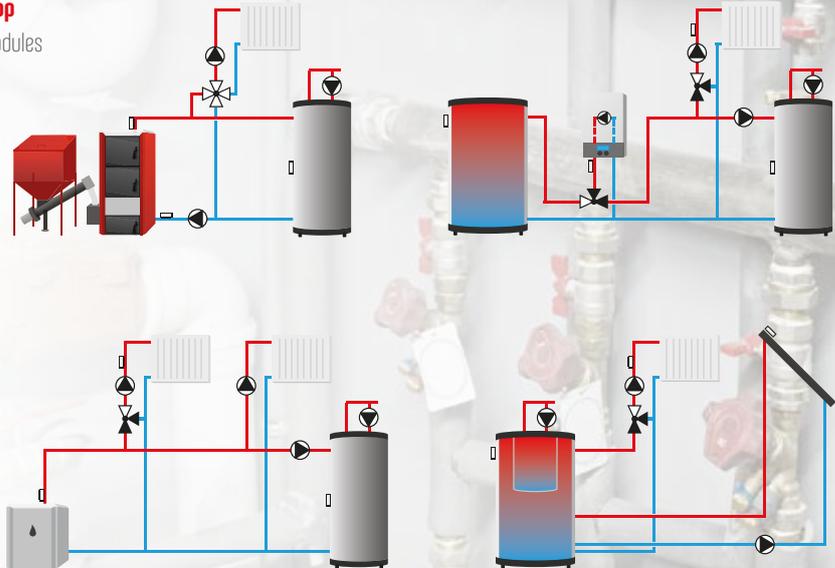
- smooth control of **two (i-2) or three (i-3) mixing valves**
- control of DHW pump
- **solar system control (only i-3)**
- return temperature protection
- weekly control and weather-based control
- two configurable voltage-free outputs
- two configurable voltage outputs
- cooperation with **two (i-2) or three (i-3) two-state room regulators**
- compatible with RS room regulators
- compatible with EU-505 module and WIFI RS module - **eModul app**
- possibility of controlling two additional valves using additional modules EU-431n, EU-i-1 or EU-i-1-m

Equipment

- LCD display
- CH boiler temperature sensor
- DHW temperature sensor
- valve temperature sensors
- return temperature sensor
- solar collector temperature sensor (i-3)
- external sensor
- wall-mountable housing

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ADDITIONAL INTERNET MODULE NECESSARY



EU-i-3 PLUS

INSTALLATION CONTROLLER



PRINCIPLE OF OPERATION

Installation controllers allow simultaneously connection of several heating sources (up to three mixing valves and two additional mixing valves) and several room regulators (thanks to them various temperature levels can be programmed in different rooms)

In addition, installation controllers made by TECH allow to connect additional modules such as Ethernet module or GSM module. Controllers are equipped with big touchscreen and USB port for updates

Functions

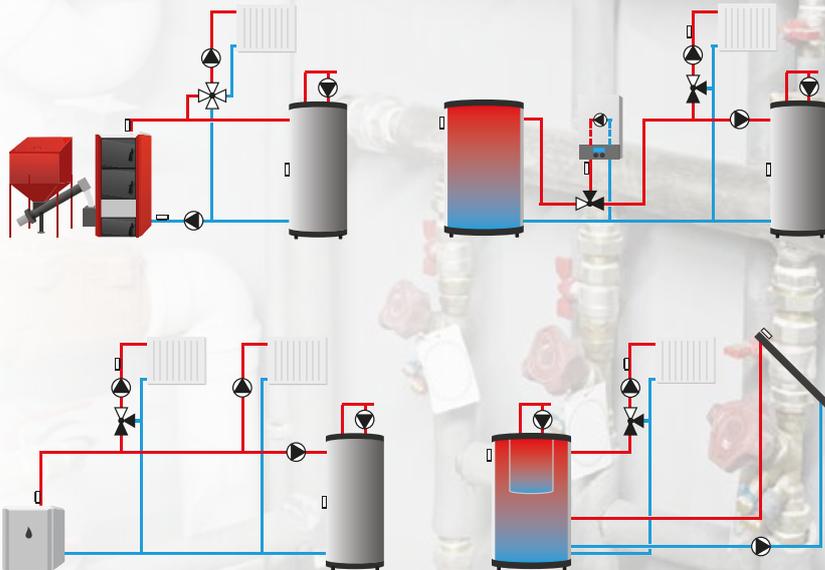
- smooth control of **three mixing valves**
- control of DHW pump
- **solar system control**
- **control of solar pump via PWM signal**
- **two configurable 0-10V outputs**
- **control of the cascade of up to 4 heating devices**
- **ability of adjusting parameters of heating device via OpenTherm communication**
- return temperature protection
- weekly control and weather-based control
- two configurable voltage-free outputs
- two configurable voltage outputs
- cooperation with **three two-state room regulators**
- compatible with RS room regulators
- compatible with EU-505 module and WIFI RS module
- **- eModul app**
- possibility of controlling two additional valves using **additional modules EU-i-1 or EU-i-1-m**

Equipment

- LCD display
- CH boiler temperature sensor
- valve temperature sensors
- return temperature sensor
- solar collector temperature sensor
- external sensor
- wall-mountable housing

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CONTROL VIA MOBILE APP
ADDITIONAL INTERNET MODULE NECESSARY



EU-RI-1

DEDICATED FOR I-2, I-3, I-3 PLUS
ROOM REGULATOR
WITH RS COMMUNICATION

Power	5 V
Wired communication RS	cord 4 x 0,14 mm ²
Temp. measurement accuracy	+/- 0,5 °C
Dimensions [mm]	95 x 95 x 25

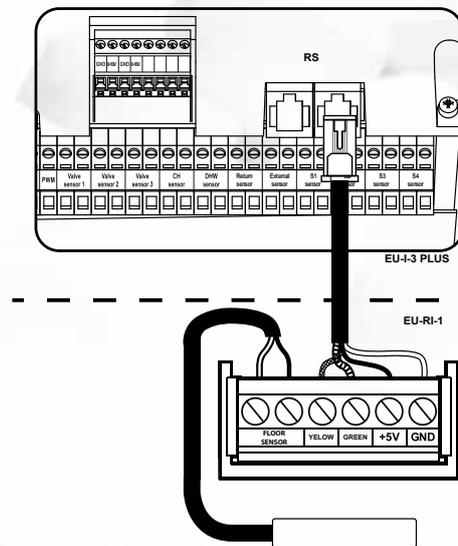


Functions

- controlling room temperature
- day/night program,
- manual mode
- additional control based on floor temperature
- hysteresis 0,2 - 4°C,
- wired communication,

Equipment

- built in temperature sensor,
- temporary display backlight,
- RS communication,



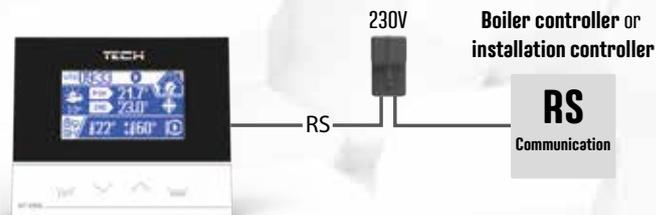
EU-296

ROOM REGULATOR WITH
RS COMMUNICATION

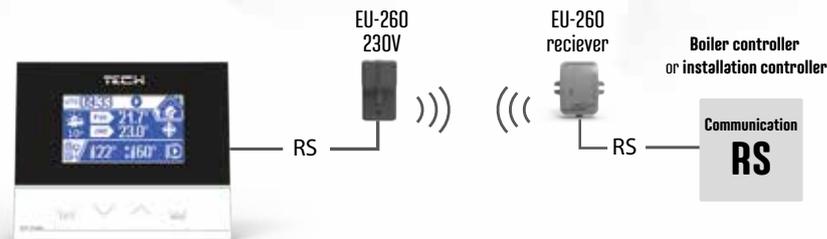


Power	Power supply - operating module
Wired communication RS	cord 4 x 0,14 mm ²
Temp. measurement accuracy	+/- 0,5 °C
Dimensions [mm]	104 x 88 x 18

Wired connection



Wireless connection



Wireless version (extra option)

- in cooperation with EU-260 set for wireless RS communication

Functions

- control of the room temperature
- control of the central heating boiler temperature
- control of the DHW temperature
- outside temperature monitoring (in cooperation with valve module)
- control of the mixing valve (available only with valve module)
- weekly heating mode
- parental lock
- automatic screen brightness adjust

Equipment

- clear, color display
- front panel made of 3mm glass
- built-in room sensor
- built-in ambient light sensor
- RS communication cable for the boiler controller

Principle of operation

EU-296 type room regulator is intended for controlling the temperature of central heating, domestic hot water and room temperature, and it can perform a weekly heating program. Application of the regulator provides convenient control of room temperature and the temperature of domestic hot water directly from home without the need to go to the boiler room. Room regulator works only with main controller equipped with RS communication by TECH. Clear color display with backlight makes it easy to read and change the controller parameters.

EU-280, EU-281, EU-281C

ROOM REGULATOR WITH RS COMMUNICATION

available in black or white casing
(EU-281, EU-281C)



Power	Power supply - operating module
Wired communication	EU-280 i EU-281 cord 4x0,14 mm ²
Wireless communication Frequency	EU-281 C 868 MHz
Temp. measurement accuracy	+/- 0,5 °C
Dimensions [mm] EU-280	145 x 102 x 24
Dimensions [mm] EU-281 i EU-281 C	127 x 90 x 20



ST-281, ST-281 C



Functions

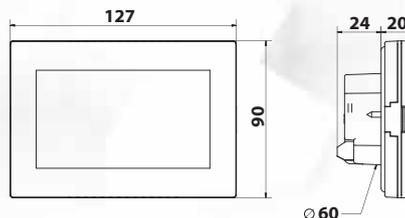
- control of the room temperature
- control of the central heating boiler temperature
- control of the DHW temperature
- control of the mixing valves temperature
- outside temperature monitoring
- weekly-based heating mode
- alert
- parental lock
- displaying current room and CH boiler temperature
- possibility of updating software via USB port (from version 4.0)

Equipment EU-280 i EU-281

- large, clear, colour touch 4,3"-LCD display
- front panel made of 2mm glass (EU-281)
- built-in room sensor
- power supply 12V DC
- RS communication cable for the boiler controller
- USB port

Principle of operation

The room regulator allows convenient temperature control of the room, CH boiler, water tank and the mixing valves without the need to go to the boiler room. The regulator requires cooperation with TECH main controller with RS communication. A large clear colour touch screen makes it easy to read and change the controller parameters.



**Flush-mounted
EU-281 C i EU-281 P**

Wireless version (extra option)

- in cooperation with EU-260 set for wireless RS communication

Equipment EU-281 C

- large, clear, colour touch 4,3"-LCD display
- front panel made of 2mm glass
- built-in room sensor
- USB port
- Module - signal receiver from main controller

EU-2801 WiFi

ROOM REGULATOR WITH
OPENTHERM COMMUNICATION



**WIFI
COMMUNICATION**

Power	230 V
Wired communication	two-core cable
Temp. measurement accuracy	+/- 0,5 °C
Dimensions [mm]	127 x 90 x 20



Functions

- smart control of the room set temperature
- smart control of the CH boiler set temperature
- changing the room set temperature basing on the outside temperature (weather-based control)
- outside temperature view
- **WiFi communication**
- weekly-based heating program for room and boiler
- displaying alerts from heating device
- acces to temperature charts of heating device
- alert-clock
- parental lock

Equipment

- large, clear, colour-touchscreen
- built-in room sensor
- flush-mounted

Principle of operation

Use of room regulator provides intelligent control of the desired room temperature by automatically adjusting the proportional boiler temperature. Regulator can adjust the parameters of control algorithm. The device is compatible with OpenTherm/plu (OT+) and OpenTherm/lite (OT-) protocol. Large, clear, colour-touchscreen, allows convinient control and modulation of the regulator parameters. Easy installation on the wall, aesthetic look, touchscreen and reasonable price are another advantages of the controller.



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EU-WiFi-OT

ROOM REGULATOR WITH
OPENTHERM COMMUNICATION



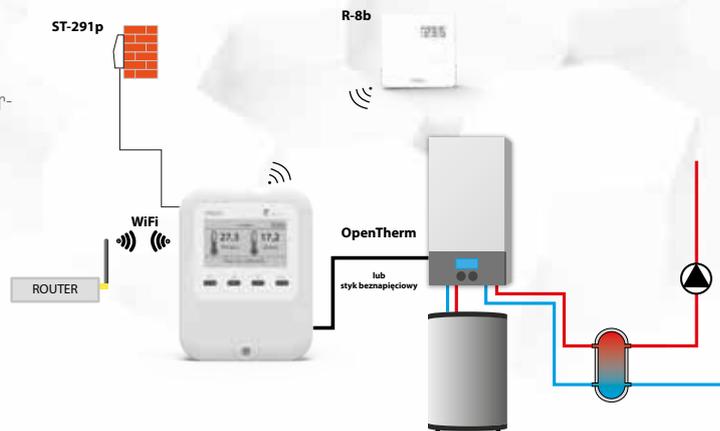
WIFI COMMUNICATION

Power	230 V
Wired communication	two-core cable
Temp. measurement accuracy	+/- 0,5 °C
Dimensions [mm]	105 x 135 x 28



Funkcje

- smart control of the room set temperature
- smart control of the CH boiler set temperature
- changing the room set temperature basing on the outside temperature (weather-based control)
- acces to temperature charts of heating device
- outside temperature view
- weekly-based heating program for room and boiler
- displaying alerts from heating device
- **OpenTherm or two-state communication**
- **WiFi communication**



Equipment

- large display,
- montaż natynkowy
- room regulator EU-R-8b in set
- wired outdoor temperature sensor EU-291p in set,

Principle of operation

Use of room regulator provides intelligent control of the desired room temperature by automatically adjusting the proportional boiler temperature. Regulator can adjust the parameters of control algorithm. The device is compatible with OpenTherm/plu (OT+) and OpenTherm/lite (OT-) protocol.



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EU-505, WiFi RS

INTERNET MODULE



Power	5V DC
LAN plug	RJ 45
Controller plug	RJ 12
Dimensions EU-505 [mm]	120 x 80 x 31
Dimensions WiFi RS [mm]	105 x 135 x 28

**LAN CABLE
COMMUNICATION**



**WiFi
COMMUNICATION**



Functions available with the latest controller versions

- remote control via the Internet - emodul.pl
- possibility of monitoring all connected devices
- possibility of editing all parameters of the main controller (in the menu structure)
- possibility of viewing the temperature history
- possibility of viewing the event log (alerts and parameter changes)
- possibility of assigning any number of passwords (to access menu, events, statistics)
- possibility of editing the pre-set temperature via a room regulator
- possibility of controlling many modules via one user account
- e-mail notification in case of alerts
- optional Text message notification in case of alerts (subscription necessary)

Equipment

- power supply unit 9V DC
- RS Splitter
- RS communication cable for the boiler controller

Functions available with older controller versions

- remote control of the CH boiler operation via the Internet or a local network- zdalnie.techsterowniki.pl
- graphic interface offering animations on the home computer screen
- possibility of changing the pre-set temperature values for both the pumps and the mixing valves
- possibility of changing the pre-set temperatures via a room regulator with RS communication
- possibility of viewing the sensor temperatures
- possibility of viewing the history and the alert types
- mobile version available at Google Play

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ZDALNIE



EU-517

2 HEATING CIRCUITS MODULE

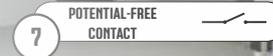
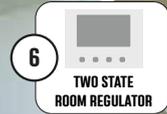
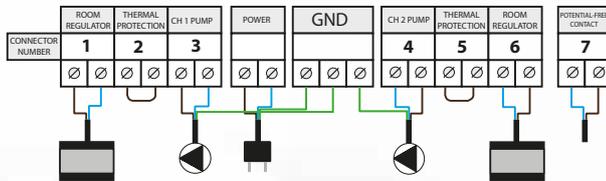


Function

- controlling of two pumps
- cooperation with two room regulators
- controlling of voltage free output

Principle of operation

The module may control two circulation pumps. When the room regulator sends a signal informing that the room temperature is too low, the module activates an appropriate pump. If the temperature of any circuit is too low, the module activates the voltage-free contact. If the module is used to control the floor heating system, an additional bimetallic sensor should be installed (on the supply pump, as close to the CH boiler as possible) -thermal overload relay. If the alarm temperature is exceeded, the sensor will disable the pump in order to protect the fragile floor heating system. If EU-517 is used to control standard heating system, the thermal overload relay may be replaced with a jumper -join the input terminals of the thermal overload relay. .



EU-401n

SOLAR COLLECTOR CONTROLLER



Power	230V 50Hz
Pump output load EU-21 SOLAR	1 A
Pump output load EU-400	0,5 A
Additional outputs load	1 A
Pump/valve output load	1 A
Durability the solar temperature sensor	-40°C - 180°C
Dimensions [mm]	110 x 163 x 57

Functions EU-401n

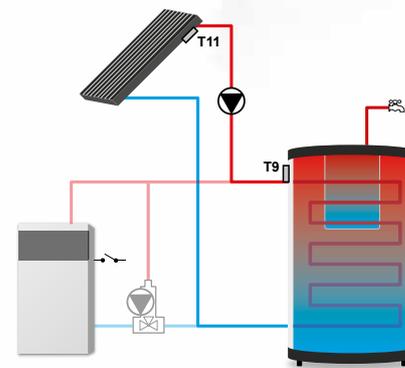
- control of the pumps
- supervision and handling of the solar system operation
- protection against overheating and freezing of the collector
- the possibility of connecting EU-505 ETHERNET/EU-WIFI RS module
- the possibility of connecting additional device:
 - circulation pump
 - electric heater
 - sending a signal to the CH boiler to fire it up

Equipment

- large, clear LCD display
- collector temperature sensor
- heat accumulator temperature sensor
- casing made of high quality materials resistant to high and low temperatures

Principle of operation

Thermoregulators are intended for operation of solar collector systems. This device controls the main (collector) pump on the basis of temperature measurement on the collector and in the accumulation tank. There is an optional possibility of connecting additional devices such as a mixing pump or an electric heater as well as to send a signal to the CH boiler to fire it up. Control of the circulation pump and sending the firing-up signal to the CH boiler is possible directly from the controller and in the case of the heater control an additional signal relay is necessary



EU-402n PWM

SOLAR COLLECTOR CONTROLLER



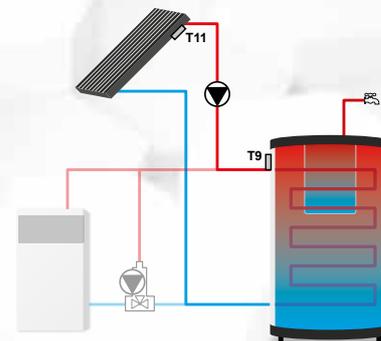
Power	230V 50Hz
Pump output load	1 A
Additional outputs load	1 A
Pump/valve output load	1 A
Durability the solar temperature sensor	-40°C - 180°C
Dimensions [mm]	110 x 163 x 57

Functions

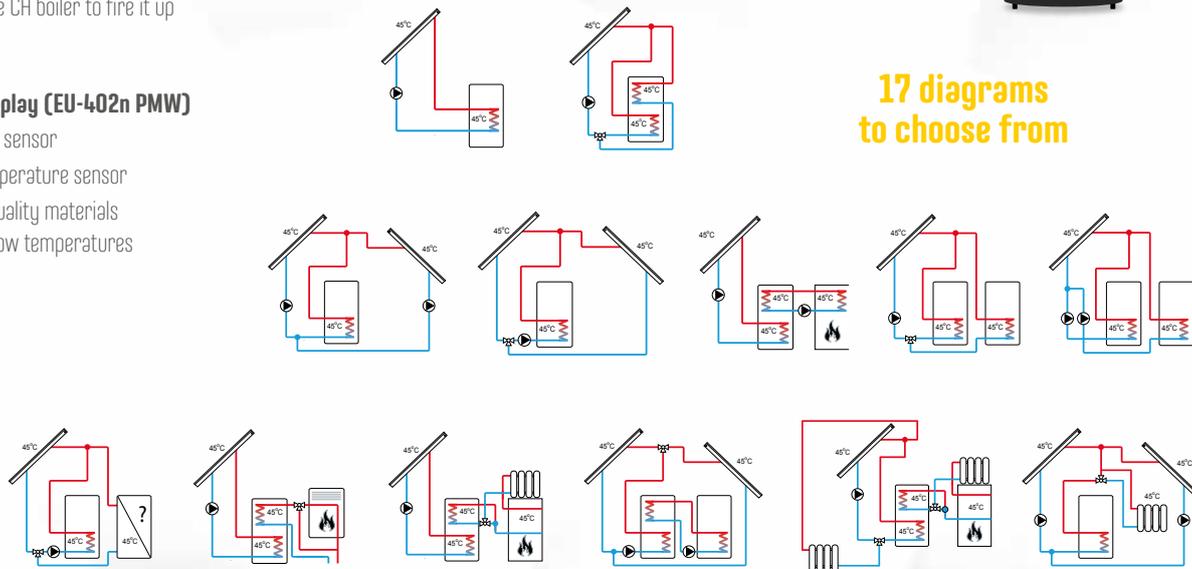
- control of the pump via PWM signal
- supervision and handling of the solar system operation for 17 configurations of the system
- protection against overheating and freezing of the collector
- the possibility of connecting EU-505 ETHERNET/EU-WIFI RS module
- the possibility of connecting additional device:
 - circulation pump
 - electric heater
 - sending a signal to the CH boiler to fire it up

Equipment

- **large, clear LCD display (EU-402n PMW)**
- collector temperature sensor
- heat accumulator temperature sensor
- casing made of high quality materials resistant to high and low temperatures



17 diagrams
to choose from



DIRECT HEAT BLOCK

Material:

Fixtures	Brass
Seals	EPDM
Insulation	EPP

Technical data:

Nominal pressure	6 bar
Max operating temp.	110 °C
Kvs value	6,3
Recommended range for 20 K to 2110 l/h Maximum	49 kW

Equipment:

Pump	Wilo Yonos PARA RS 25/6 RKA
Non-return valve	200 mmWS, adjustable
Cut-off valve	Ball valve with a handle
Thermometer	0-120 °C

Dimensions:

Heat source connection	1½" GZ, flat seals
Heat receiver connection	1" GW
Axis spacing	125 mm
Mounting length	342 mm
Width	250 mm
Height	371 mm



**DIRECT CIRCULATION
FOR CHARGING WATER TANK OR SMOOTH
HEATING CIRCUIT OPERATION**

ECO 34 - DN25

HEAT BLOCK WITH 3-WAY MIXER

Material:

Fixtures	Brass
Seals	EPDM
Insulation	EPP

Technical data:

Nominal pressure	6 bar
Max operating temp.	110 °C
Kvs value	5,7
Recommended range for 20 K to 1980 l/h Maximum	46 kW

Equipment:

Pump	Wilo Yonos PARA RS 25/6 RKA
Non-return valve	200 mmWS, adjustable
Cut-off valve	Ball valve with a handle
Thermometer	0-120 °C

Dimensions:

Heat source connection	1½" GZ, flat seals
Heat receiver connection	1" GW
Axis spacing	125 mm
Mounting length	342 mm
Width	250 mm
Height	371 mm



**Heating circulation with a 3-way mixer and
bypass 0-50%.
For heating circuits with a mixer.**

PUMP UNIT ACCESSORIES



DOUBLE DISTRIBUTOR

- steel, 4-angle DN25 distributor
- F1x1 1/2 flange
- external thread
- insulation



TRIPLE DISTRIBUTOR

- steel, 4-angle DN25 distributor
- F1x1 1/2 flange
- external thread
- insulation



Wall bracket
DN25 / DN 322

