



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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HOME SYSTEM  
**SINUM**

**EASY  
MONTAGE**

**REMOTE  
CONTROL**

**20%  
SAVINGS**

**VOICE  
ASSISTANT**

**TEMPERATURE  
CONTROL**

HEATING **MANAGEMENT SYSTEM**

# SINUM COMPONENTS



TEMPERATURE SENSOR /  
ROOM REGULATOR



WINDOW OPENING SENSOR



SINUM MAIN CONTROLLERS



ACTUATOR

APP FOR REMOTE OPERATION CONTROL

# eModul



VIEW AND EDITING PARAMETERS  
IN EACH ZONE

TEMPERATURE  
HISTORY

HEATING  
SCHEDULE

OPEN WINDOW  
INFORMATION

VIEW THE  
ALARM LOG

FREE TO  
USE

VOICE  
ASSISTANT



# 8S

EU-WiFi 8S / EU-WiFi 8S p

Up to 8 zones

Built in WiFi module

Voltage-free relay



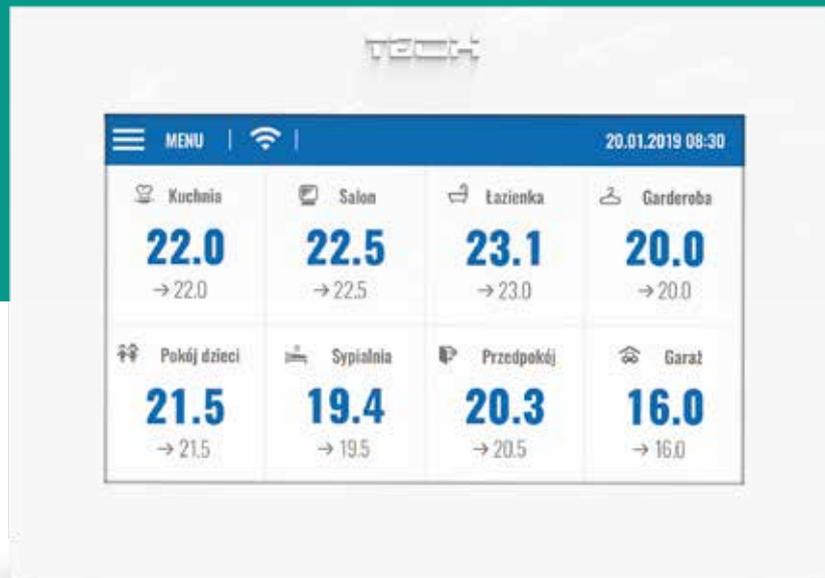
WiFi 8S p	power / communications	230V 50Hz	wireless 868 MHz
	dimensions [mm] / colour	95 x 95 x 13	white
WiFi 8S	power / communications	5V / 230V 50Hz	wireless 868 MHz
	dimensions [mm] / colour	105 x 135 x 28	white

# 16S

EU-16S WiFi

Up to 16 zones

Built in WiFi module



## AVAILABLE COLOURS



power / communications

230V 50Hz

wireless 868 MHz

dimensions [mm] / colour

127 x 90 x 20

white / black

## Functions:

- controlling up to **8 (EU-WiFi 8S/8S p) or 16 (EU-WiFi 16S) different zones** with the use of
  - wired temperature sensor **EU-C-7 p (in set with EU-WiFi 16S)**
  - wireless temperature sensor **EU-C-mini ( in set with EU-WiFi 8S mini)**
  - possibility of connecting up to **8 (EU-WiFi 8S) or 16 ( EU-WiFi 16S) wireless sensors EU-C-mini, EU-CL-mini, EU-C-8r or room regulators EU-R-8b, EU-R-8z, EU-R-8b PLUS,**
- **NO/NC relay output** (e.g. for controlling the heating device which is activated when the room temperature is too low)
- possibility of connecting up to **6 wireless electric actuators STT-868/STT-869 in each zone**
- **possibility of connecting up to 6 modules EU-MW-1 / EU-MW-1 230**
- possibility of installing up to **6 wireless window opening sensors EU-C-2n**
- possibility of updating the software via USB port
- each zone may be assigned an individual operation mode (constant temperature, time limit or 6 operation schedules)
- compatible with wireless external sensor **EU-C-8 zr**

## Equipment:

- **power supply 5V**
- additional wired temperature sensor **EU-C-7 p (EU-WiFi 8S)**
- additional wireless temperature sensor **EU-C-mini (EU-WiFi 8S p)**



Power adapter in set

WiFi 8S p



Power adapter in set

EU-WiFi 8S



Flush mountable

EU16S WiFi



## EU-C-2n

### WIRELESS WINDOW OPENING SENSOR

- window opening signal,
- heating control,
- compact dimensions,
- discreet design,
- long-life battery ER14250 S

### OPEN WINDOW HEATING OFF

### AVAILABLE COLOURS



Fast transmission

Power supply 2x AA

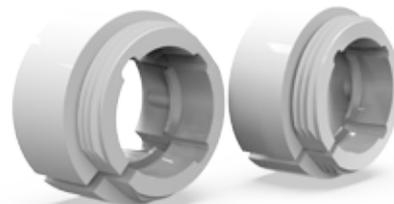
M30 x 1,5 mm



## WIRELES THERMOELECTRIC ACTUATOR

### Function:

- wireless communication,
- open/close radiator valve
- fast transmission,
- pairing button inside of the casing,
- possibility of using an adapters for other types of valves,
- RAN and RTDN adapters in set,



RAN and RTDN adapters in set

power / communications	battery 2xAA 1,5V	wireless 868 MHz
dimensions [mm] / fastening	82 x 83 x 49	M30 x 1,5 mm

Silent transmission

Power supply 2x AA

M30 x 1,5 mm



## WIRELES THERMOELECTRIC ACTUATOR

### Function:

- wireless communication,
- open/close radiator valve
- new, silent transmission,
- pairing button on the outside of the casing,
- possibility of using an adapters for other types of valves
- RAN and RTDN adapters in set,

power / communications	battery 2xAA 1,5V	wireless 868 MHz
dimensions [mm] / fastening	80 x 70 x 46	M30 x 1,5 mm



## EU-CL-mini

WIRELESS ROOM TEMPERATURE SENSOR  
IN HERMETIC CASING IP64



- air temperature measurement,
- meets the IP64 standard,
- compact in size,

power / communications	battery CR 2032	wireless 868 MHz
dimensions [mm] / colour	37 x 37 x 16	white

## EU-C-mini

WIRELESS ROOM TEMPERATURE SENSOR



- air temperature measurement,
- compact in size,

power / communications	battery CR 2032	wireless 868 MHz
dimensions [mm] / colour	37 x 37 x 16	white

## EU-C-8r

WIRELESS ROOM TEMPERATURE SENSOR



- air temperature measurement,

power / communications	battery 2xAAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	80 x 80 x 16	white, black

## EU-R-8b

WIRELESS ROOM REGULATOR



- air temperature measurement and control,
- heating program with time limit,
- LCD display without backlight,

power / communications	battery 2xAAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	80 x 80 x 16	white, black

## WIRELESS SYSTEM EXTENSION EU-WiFi 8s/8s p, EU-16s WiFi



### EU- R-8b PLUS

#### WIRELESS ROOM REGULATOR WITH HUMIDITY SENSOR

- air temperature measurement and control,
- measuring air humidity,
- temperature control on the basis of floor temperature,
- heating program with time limit,
- LCD display without backlight,

power / communications	battery 2xAAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	80 x 80 x 16	white, black



### EU- R-8z

#### WIRELESS ROOM REGULATOR

- air temperature measurement and control,
- heating program with time limit,
- LED display with backlight,
- 5V power supply included in the set mountable in an electrical box 960 mm,

power / communications	Zasilacz 5V / 230V 50Hz	wireless 868 MHz
dimensions [mm] / colour	80 x 80 x 16	white, black



### EU- C-8zr

#### WIRELESS OUTSIDE TEMPERATURE SENSOR

- air temperature measurement,

power / communications	battery 2xAAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	80 x 50 x 20	white



### EU-MW-1 / EU-MW-1 - 230

#### WIRELESS EXECUTIVE MODULE

- voltage-free relay, **MW-1**:  
output load contact 1A/230V/50Hz,
- voltage relay, **MW-1/230**  
output load contact 1A/230V/50Hz,
- automatic off in case of loss of communication,

power / communications	230V 50Hz	wireless 868 MHz
dimensions [mm] / colour	50 x 80 x 60	white



# FLOOR HEATING SYSTEM

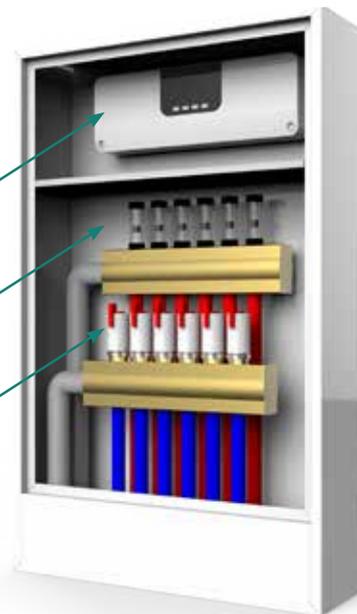
## Basic installation requirements



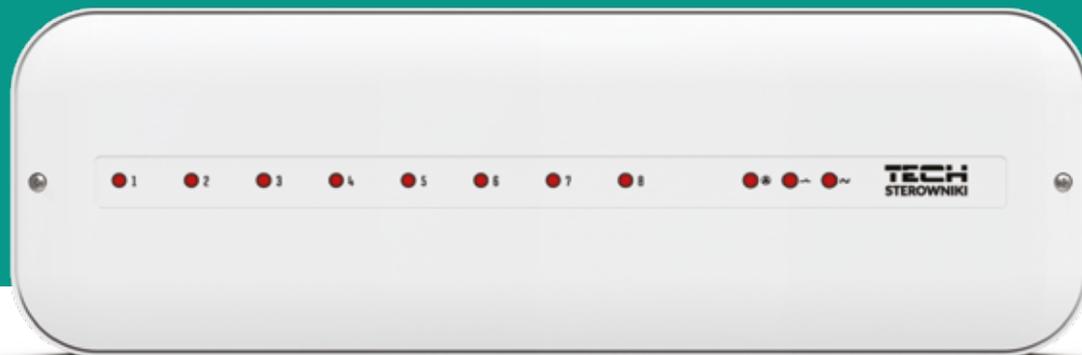
**Place** for  
main controller

**Power supply**  
230V 50Hz

**Thermoelectric**  
actuators



# EU-L-5s WIRED FLOOR HEATING SYSTEM



## EU-L-5s

### Functions:

Controlling up to **50 thermoelectric actuators** with the use of **22 outputs**, via **two-state room regulators**

– 3 outputs may support **12 actuators** (the max. of 4 actuators per one output) or each output load of max. 0,3A (~70W)

– 5 outputs may support **10 actuators** (the max. of 2 actuators per one output) or each output load of max. 0,3A (~70W)

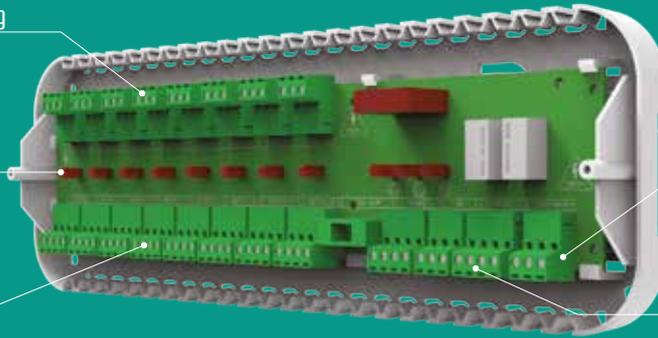
- one 230V output for a pump
- voltage-free relay (e.g. to control an additional heating device)

power / communications	230V 50Hz	wired 2 or 3 core cable
dimensions [mm] / relay	335 x 105 x 75	• / 1 A
max load 1-8 / pump load	0,3 A	0,5 A

Possibility of powering room regulators

Indicating LEDs

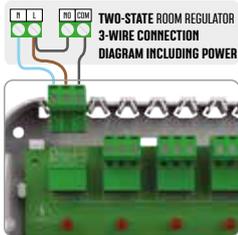
8 zones



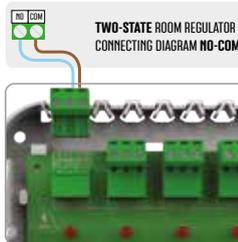
DIN rail fitting

Voltage-free contact

Pump output



**TWO-STATE ROOM REGULATOR  
3-WIRE CONNECTION  
DIAGRAM INCLUDING POWER**



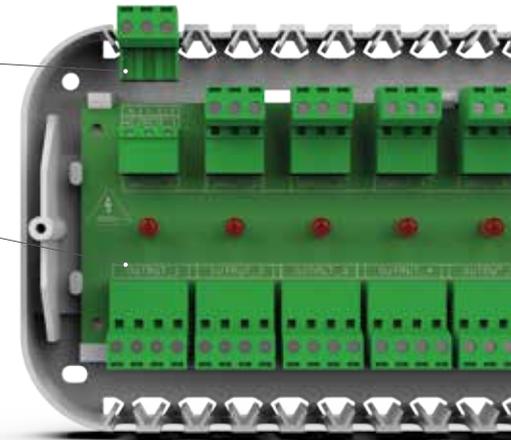
**TWO-STATE ROOM REGULATOR  
CONNECTING DIAGRAM NO-COM**



Removable connectors

Clear signs

Only 37mm



# EU-L-10 WIRED FLOOR HEATING SYSTEM



## EU- L-10

### Functions

Possibility of controlling up to **50 thermoelectric actuators** with the use of **10 room regulators**:

- standard two-state regulators (2-core cable)
- dedicated regulators powered from the main controller (3-core cable)
- voltage - free relay (e.g. to control an additional heating device)
- voltage relay for controlling the floor pump
- **2-minute delay of output activation : voltage-free output and pump output**

MAX. 10 ZONES

ROOM REGULATORS POWERED  
FROM MAIN CONTROLLER

power / communications	230V 50Hz	wired 2 or 3 cord
dimensions [mm] / relay	343 x 125 x 55	• / 1 A
outputs 1-10 load / pump output load	0,3 A	0,5 A

## DEDICATED WIRED EXTENSIONS EU-L-10 - ROOM REGULATORS POWERED FROM MAIN CONTROLLER



### EU-R-10b

DEDICATED WIRED ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- LCD display without backlight,

power / communications

power z listwy L-10

wired 3 x 0,5mm<sup>2</sup>

dimensions [mm] / colour

80 x 80 x 16

white, black



### EU-R-10z

DEDICATED WIRED ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- LED display with backlight,

power / communications

power z listwy L-10

wired 3 x 0,5mm<sup>2</sup>

dimensions [mm] / colour

80 x 80 x 16

white, black



### EU-R-10s

DEDICATED WIRED ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- day/night program,
- additional control based on floor temperature (if floor sensor is used),
- temporary display backlight,
- touch buttons,

power / communications

power z listwy L-10

wired 3 x 0,5mm<sup>2</sup>

dimensions [mm] / colour

95 x 95 x 25

white



### EU-R-10s PLUS

DEDICATED WIRED ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- day/night program,
- additional control based on floor temperature (if floor sensor is used),
- temporary display backlight,
- touch buttons,

power / communications

power z listwy L-10

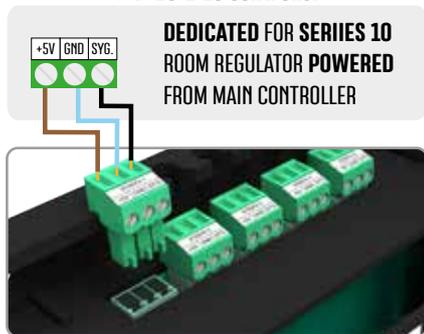
wired 3 x 0,5mm<sup>2</sup>

dimensions [mm] / colour

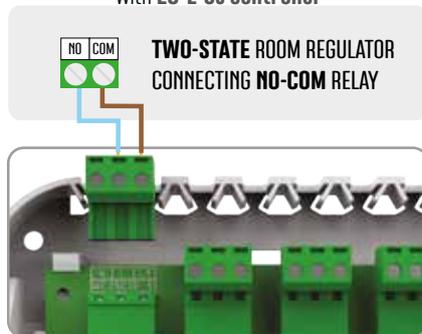
84 x 84 x 14

white

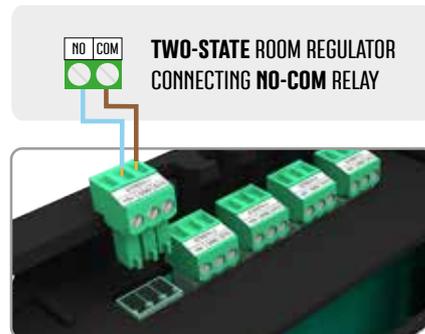
Connecting diagram of dedicated room regulator  
with **EU-L-10** controller



Connecting diagram of two-state room regulator  
with **EU-L-5s** controller



Connecting diagram of two-state room regulator  
with **EU-L-10** controller



## SYSTEM EXTENSIONS EU-L-5s, EU-L-10 - STANDARD TWO-STATE ROOM REGULATORS



### EU-293 v3

WIRED TWO-STATE ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- weekly heating program,
- day/night program,
- Optimum Start function,
- additional control based on floor temperature (if floor sensor is used),
- temporary display backlight,

power / communications

battery 2xAAA 1,5V

wired 2x0,75mm<sup>2</sup>

dimensions [mm] / colour

125 x 83 x 14

white, black



### EU-292 v3

WIRED TWO-STATE ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- weekly heating program,
- day/night program,
- Optimum Start function,
- additional control based on floor temperature (if floor sensor is used),
- temporary display backlight,

power / communications

battery 2xAA 1,5V

wired 2x0,75mm<sup>2</sup>

dimensions [mm] / colour

121 x 95 x 24

white, black

## SYSTEM EXTENSIONS EU-L-5s, EU-L-10 - STANDARD TWO-STATE ROOM REGULATORS



### EU-294 v1

#### WIRED TWO-STATE ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- LCD display without backlight,
- possibility to set a limit the range of temperature changes
- sensor calibration.

power / communications	battery 2xAAA 1,5V	wired 2x0,5mm <sup>2</sup>
dimensions [mm] / colour	80 x 80 x 16	white, black



### EU-297 v3

#### WIRED TWO-STATE ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- additional control based on floor temperature (if floor sensor is used),
- day/night program,
- temporary display backlight,
- **flush mountable (electric box 60mm)**

power / communications	battery 2xAAA 1,5VV	wired 2x0,5mm <sup>2</sup>
dimensions [mm] / colour	84 x 84 x 13	white, black



### EU-295 v3

#### WIRED TWO-STATE ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- additional control based on floor temperature (if floor sensor is used),
- day/night program,
- temporary display backlight,

power / communications	battery 2xAAA 1,5V	wired 2x0,5mm <sup>2</sup>
dimensions [mm] / colour	95 x 95 x 25	white



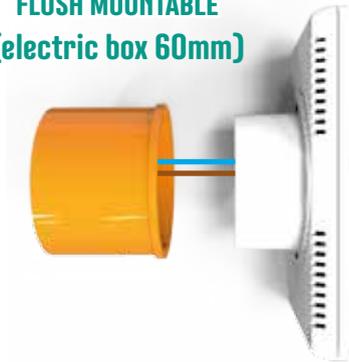
### EU-290 v3

#### WIRED TWO-STATE ROOM REGULATOR

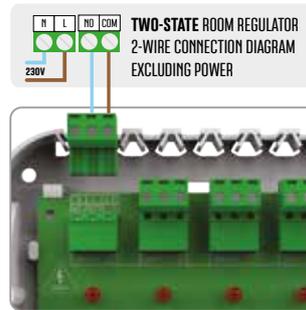
- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- weekly heating program,
- day/night program,
- hysteresis 0,2 - 4°C,
- Optimum Start function,
- temporary display backlight,

power / communications	battery 2xAA 1,5V	wired 2x0,75mm <sup>2</sup>
dimensions [mm] / colour	134 x 95 x 24	white, black

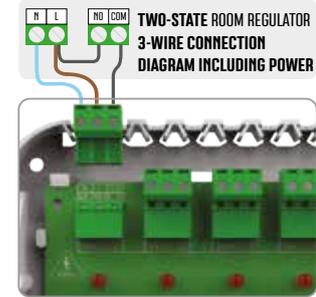
## FLUSH MOUNTABLE (electric box 60mm)



Connecting diagram of room regulator  
powered 230V



Connecting diagram of room regulator powered 230V  
using power from L-5s controller



## EXTENSION EU-L-5s, EU-L-10- ROOM REGULATORS POWERED 230V ⚡

### EU-293z v3

WIRED TWO-STATE ROOM REGULATOR - 230 V

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- additional control based on floor temperature (if floor sensor is used),
- weekly heating program,
- day/night program,
- Optimum Start function
- temporary display backlight,
- **flush mountable (electric box 60mm)**

power / communications	230V 50Hz	wired 2x0,75mm <sup>2</sup>
dimensions [mm] / colour	125 x 83 x 14	white, black

### EU-297z v3

WIRED TWO-STATE ROOM REGULATOR - 230 V

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- additional control based on floor temperature (if floor sensor is used),
- day/night program,
- temporary display backlight,
- **flush mountable (electric box 60mm)**

power / communications	230V 50Hz	wired 2x0,5mm <sup>2</sup>
dimensions [mm] / colour	84 x 84 x 13	white, black

# SYSTEM CONTROLLED VIA THE INTERNET



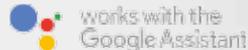
## eModul



It's cold

In which room should the temperature be raised?

## VOICE CONTROL



**TECH**  
CONTROLLERS

# EU-L-7e WIRED FLOOR HEATING SYSTEM



## Functions:

Controlling up to **50 thermoelectric actuators** with the use of **22 outputs**, via **EU-C-7p wired room temperature sensors**

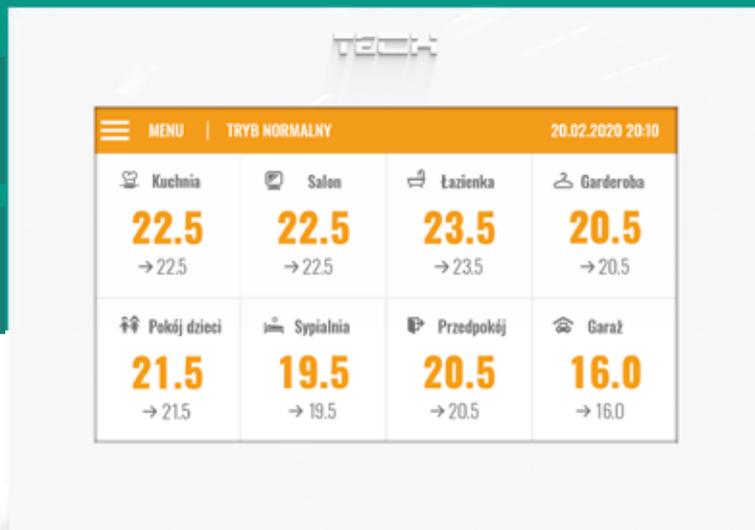
- 3 outputs may support 12 actuators (the max. of 4 actuators per one output) or each output load of max. 0,3A (~70W)
- 5 outputs may support 10 actuators (the max. of 2 actuators per one output) or each output load of max. 0,3A (~70W)
- one 230V output for a pump
- voltage-free relay (to control an additional heating device)
- possibility of connecting **EU-M-7 control panel (wire connection)**
- possibility of connecting **EU-505 Ethernet or EU-WiFi RS for controlling the installation via the Internet**
- **possibility of connecting EU-i-1 or EU-i-1m valve module**
- software update via USB

<b>power / communications</b>	230V 50Hz	wired - 2 wire
<b>dimensions [mm] / voltage-free relay</b>	335 x 105 x 75	• / 1 A
<b>outputs 1 - 8 load / pump output load</b>	0,3 A	0,5 A

# EU-M-7 WIRED CONTROL PANEL FOR EU-L-7e

4,3" Touch screen

Adjusting each zone parameters in one place



## EU-M-7 WIRED CONTROL PANEL

**Casing:** Black or white

**Principle of operation:** the controller allows the user to control and view the parameters of floor heating system.

**Functions:** Changing the parameters for each zone (schedule settings, set temperature), possibility of enabling/disabling particular zone, time/date settings, brightness settings, screensaver, alert clock, screen lock, easy to mount in electrical box (ø60mm). **No integrated temperature sensor.**

**Power supply:** 230V 50Hz.

**Dimensions:** 127 x 90 x 20 mm



FLUSH MOUNTABLE

## 2 COLOURS



power	230V 50Hz
dimensions [mm]	127 x 90 x 20
communications	wired - 4 cord

## SYSTEM EXTENSION EU-L-7e - TEMPERATURE SENSOR AND ADDITIONAL MODULES



### EU-C-7p

#### WIRED ROOM TEMPERATURE SENSOR

- air temperature measurement,

power / communications	-	wired 2x0,5 mm <sup>2</sup>
dimensions [mm] / colour	80 x 80 x 16	white, black



### EU-i-1m

#### MIXING VALVE CONTROLLER

- smooth control a three- or four-way valve,
- control of the valve pump,
- return temperature protection,
- weather-based control,
- weekly control,

power / communications	230V 50Hz	wired RS
dimensions [mm] / colour	110 x 163 x 57	white



### EU-505

#### INTERNET MODULE

- remote control of the floor heating system via eModul
- wired connection,
- power supply 5V

power / communications	5V / 230V 50Hz	wired RS
dimensions [mm] / colour	120 x 80 x 31	black



### EU-WiFi RS

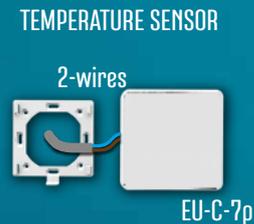
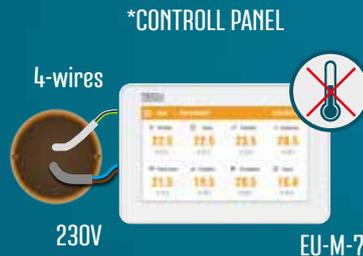
#### INTERNET MODULE

- remote control of the floor heating system via eModul
- WiFi connection,
- web standard 2,4 MHz b/g/n
- power supply 5V

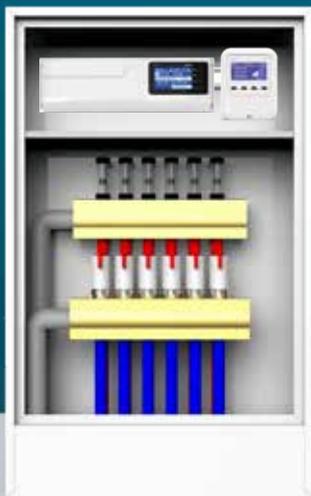
power / communications	5V / 230V 50Hz	wired RS
dimensions [mm] / colour	105 x 135 x 28	white

## Additional options:

- Control panel **EU-M-7**
- Internet module **EU-WiFi RS**



EU-L-7e \*INTERNET MODULE



# 4

## EU-L-4 UNIVERSAL FLOOR HEATING SYSTEM WITH WiFi MODULE



### Function:

Controlling **4 voltage outputs** by 4 wired temperature sensors **EU-C-7p**

or wireless temperature sensors **EU-C-mini**, **EU-CL-mini**, **EU-C-8r**

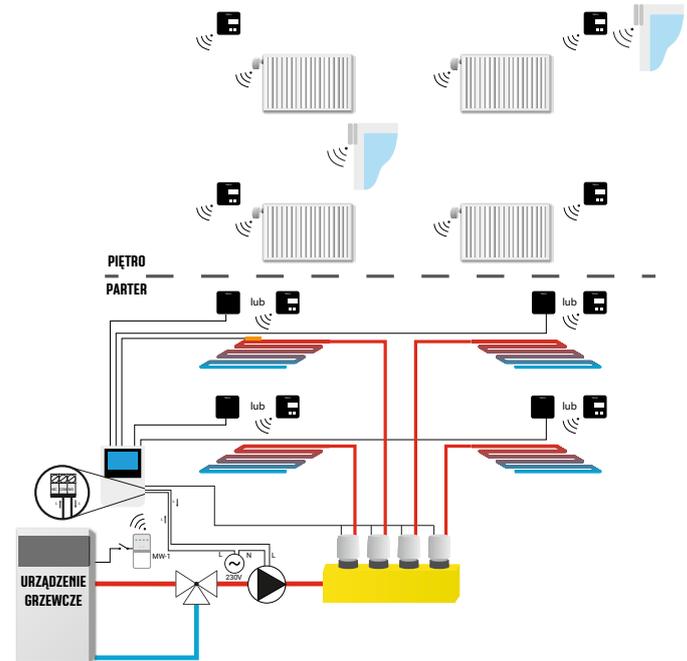
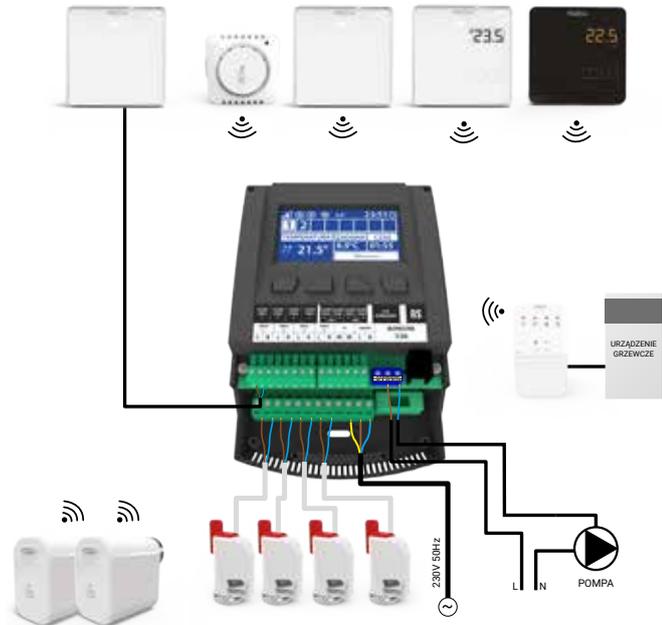
or wireless regulators **EU-R-8b**, **EU-R-8z**,

- voltage-free relay (to control an additional heating device or pump)
- possibility of controlling the installation via the Internet
- possibility of controlling **8 zones**:
  - 4 zones controlled by wireless temperature sensors **EU-C-mini**, **EU-CL-mini**, **EU-C-8r** or wireless regulators **EU-R-8b**, **EU-R-8z**,
  - 4 zones with voltage outputs controlled by 4 wired temperature sensors **EU-C-7p** or wireless temperature sensors **EU-C-mini**, **EU-CL-mini**, **EU-C-8r** or wireless regulators **EU-R-8b**, **EU-R-8z**,
  - possibility of controlling wireless actuators STT-868/STT-869 (the maximum of 6 per zone)
- possibility of connecting **4** wired or **8** wireless floor temperature sensors,
- possibility of connecting **8** executive modules **EU-MW-1** or **EU-MW-1/230**,
- software update via USB

<b>power / communications</b>	230V 50Hz	wired / wireless
<b>dimensions [mm] / voltage-free relay</b>	110 x 163 x 57	• / 1 A
<b>outputs 1 - 8 load / pump output load</b>	0,3 A	0,5 A

# CONNECTION DIAGRAM

# EXAMPLE INSTALATION DIAGRAM



# EU-L-8e WIRELESS FLOOR HEATING SYSTEM



## Functions:

Controlling up to **50 thermoelectric actuators** with the use of **22 outputs**, via:  
wireless room regulators and wireless room temperature sensors

- 3 zones supporting 4 outputs each (if there are more actuators, the maximum output load is 0,3A)
- 5 zones supporting 2 outputs each (if there are more actuators, the maximum output load is 0,3A)
- one 230V output for a pump
- voltage-free relay (to control an additional heating device)
- optional summer mode with external temperature sensor
- **heating/cooling function**
- possibility of limiting the range of temperature change introduced from the zone level
- possibility of controlling wireless actuators **STT-868/STT-869** (the maximum of 6 per zone)
- possibility of installing up to **6 wireless window opening sensors EU-C-2n** in each zone
- possibility of connecting **6 executive modules EU-MW-1 or EU-MW-1/230**
- possibility of connecting **EU-M-8e wireless control panel**
- possibility of connecting **EU-505 Ethernet or WiFi RS for controlling the installation via the Internet**
- possibility of connecting **EU-i-1 or EU-i-1m valve module**
- software update via USB

<b>power / communications</b>	230V 50Hz	wireless 868 MHz
<b>dimensions [mm] / voltage-free relay</b>	335 x 105 x 75	• / 1 A
<b>outputs 1 - 8 load / pump output load</b>	0,3 A	0,5 A

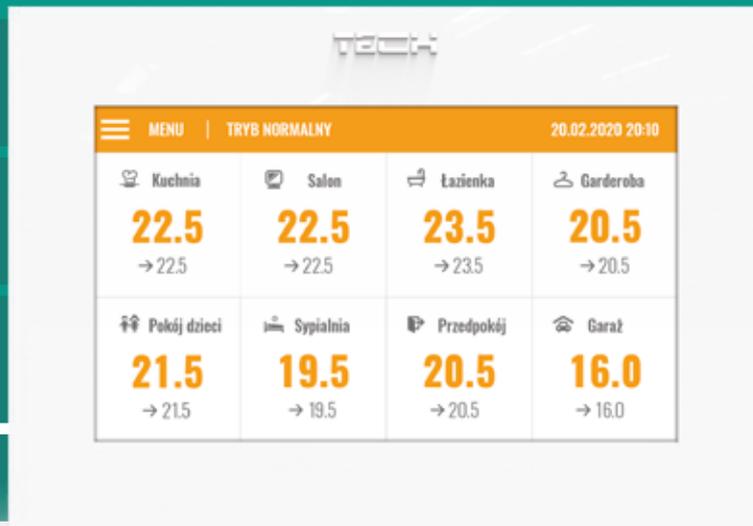
# EU-M-8e WIRELESS CONTROL PANEL FOR EU-L-8e

4,3" Touch screen

Adjusting each zone parameters in one place

Can measure air temperature in 1 zone

Wireless communication



## EU-M-8e DEDICATED WIRELESS CONTROL PANEL (FLUSH-MOUNTED)

**Casing:** Black or white

**Principle of operation:** Controller is intended for control and preview the parameters of floor heating system.

**Functions:** Changing the parameters for each zone (schedule settings, set temperature), possibility of enabling/disabling particular zone, time/date settings, brightness settings, screensaver, alert clock, screen lock, easy to mount in electrical box (ø60mm).

**Power supply:** 230V 50Hz.

**Dimensions:** 127 x 90 x 20 mm



FLUSH MOUNTABLE

## 2 COLOURS



power	230V 50Hz
dimensions [mm]	127 x 90 x 20
communications	wireless 868 MHz

# EU-L-9r UNIVERSAL FLOOR HEATING SYSTEM



## Functions:

Controlling up to **50 thermoelectric actuators** with the use of **19 outputs**

- 3 zones with 3 outputs each (if there are more actuators, the maximum output load is 0,3A)
- 5 zones with 2 outputs each (if there are more actuators, the maximum output load is 0,3A)
- one 230V output for a pump
- voltage-free relay (to control an additional heating device)
- possibility of connecting **EU-i-1 or EU-i-1m valve module**
- **possibility of connecting up to 4 main controllers controllers in series and controlling them via 1 control panel**
- **possibility of controlling the system online via eModul app (EU-M-9 panel is necessary)**
- **heating/cooling function**
- software update via USB

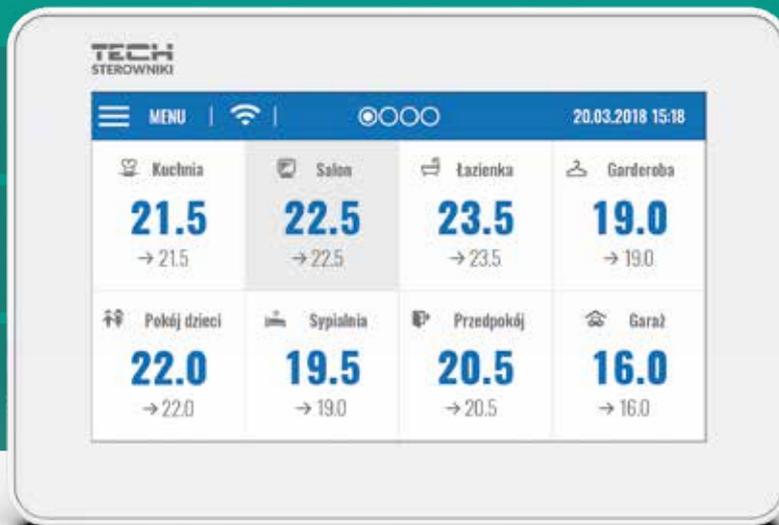
power / communications	230V 50Hz	wired/wireless
dimensions [mm] / voltage-free relay	340 x 118 x 52	• / 1 A
outputs 1- 8 load / pump output load	0,3 A	0,5 A

# M-9r WIRED CONTROL PANEL FOR EU-L-9r

4,3" Touch screen

Adjusting each zone parameters in one place

Built in WiFi module



## M-9r DEDICATED WIRED CONTROL PANEL (FLUSH-MOUNTED)

Case: White or Black

**Main functions:** Zone registration, possibility of adjusting each zone parameters (Schedule settings, pre-set temperature), possibility of activating/deactivating a zone, setting time and date for the whole set, screensaver, alarm clock, screen lock, WiFi communication ( possibility of control via eModul platform) Flush mountable in 60mm mounting box

**Supply voltage 230V 50Hz**

**Dimensions:** 127 x 90 x 20 mm



2 COLOURS



power	230V 50Hz
dimensions [mm]	127 x 90 x 20
communications	wired 4 x 0,5 / UTP

FLUSH MOUNTABLE

**TECH**  
CONTROLLERS

## DEDICATED SYSTEM EXTENSIONS EU-L-9r - ROOM REGULATORS



### EU-R-9b

#### DEDICATED WIRED ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- LCD display without backlight,
- additional control based on floor temperature (if floor sensor is used),

<b>power / communications</b>	powered from controller	wired 4 x 0,5 / UTP
<b>dimensions [mm] / colour</b>	80 x 80 x 16	white, black



### EU-R-9z

#### DEDICATED WIRED ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- LED display with backlight,
- additional control based on floor temperature (if floor sensor is used),

<b>power / communications</b>	powered from controller	wired 4 x 0,5 / UTP
<b>dimensions [mm] / colour</b>	80 x 80 x 16	white, black



### EU-R-9s

#### DEDICATED WIRED ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- day/night program,
- additional control based on floor temperature (if floor sensor is used),
- temporary display backlight,
- touch buttons,

<b>power / communications</b>	powered from controller	wired 4 x 0,5 / UTP
<b>dimensions [mm] / colour</b>	95 x 95 x 25	white



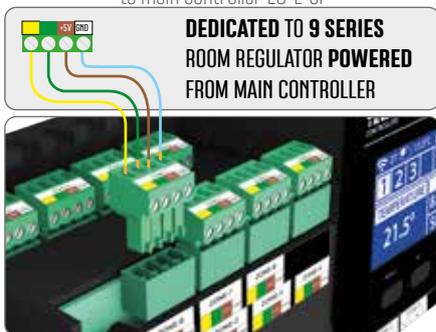
### EU-R-9s PLUS

#### DEDICATED WIRED ROOM REGULATOR

- air temperature measurement and control,
- hysteresis 0,2 - 4°C,
- day/night program,
- additional control based on floor temperature (if floor sensor is used),
- temporary display backlight,
- touch buttons,

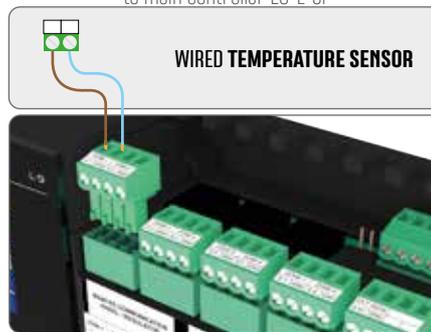
<b>power / communications</b>	powered from controller	wired 4 x 0,5 / UTP
<b>dimensions [mm] / colour</b>	84 x 84 x 14	white

Connecting of dedicated room regulator  
to main controller EU-L-9r



**DEDICATED TO 9 SERIES  
ROOM REGULATOR POWERED  
FROM MAIN CONTROLLER**

Connecting of wired temperature sensor EU-C-7p  
to main controller EU-L-9r



**WIRED TEMPERATURE SENSOR**

## SYSTEM EXTENSION EU-L-9r - WIRED TEMPERATURE SENSORS



### EU-C-7p

WIRED ROOM TEMPERATURE SENSOR

- air temperature measurement,

power / communications	-	wired 2 x 0,5 mm <sup>2</sup>
dimensions [mm] / colour	80 x 80 x 16	white, black



### EU-291p NTC

WIRED OUTSIDE TEMPERATURE SENSOR

- air temperature measurement,

power / communications	-	wired 2 x 0,5 mm <sup>2</sup>
dimensions [mm] / colour	60 x 80 x 20	white

### EU-CL-mini

WIRELESS ROOM TEMPERATURE SENSOR  
IN HERMETIC CASING IP64

- air temperature measurement,
- meets the IP64 standard,
- compact in size,



<b>power / communications</b>	battery CR 2032	wireless 868 MHz
<b>dimensions [mm] / colour</b>	37 x 37 x 16	white

### EU-C-mini

WIRELESS ROOM TEMPERATURE SENSOR

- air temperature measurement,
- compact in size,



<b>power / communications</b>	battery CR 2032	wireless 868 MHz
<b>dimensions [mm] / colour</b>	37 x 37 x 16	white

### EU-C-8f

WIRELESS FLOOR TEMPERATURE SENSOR  
IN HERMETIC CASING

- measuring floor temperature,



<b>power / communications</b>	battery 2xAAA 1,5V	wireless 868 MHz
<b>dimensions [mm] / colour</b>	80 x 80 x 16	white, black

### EU-C-8r

WIRELESS ROOM TEMPERATURE SENSOR

- air temperature measurement,



<b>power / communications</b>	battery 2xAAA 1,5V	wireless 868 MHz
<b>dimensions [mm] / colour</b>	80 x 80 x 16	white, black

### EU-R-8b

#### WIRELESS ROOM REGULATOR

- air temperature measurement and control,
- heating program with time limit,
- LCD display without backlight,



power / communications	battery 2xAAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	80 x 80 x 16	white, black

### EU-R-8b PLUS

#### WIRELESS ROOM REGULATOR WITH HUMIDITY SENSOR

- air temperature measurement and control,
- measures air humidity,
- additional temperature control on the basis of floor temperature,
- heating program with time limit,
- LCD display without backlight,



power / communications	battery 2xAAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	85 x 85 x 15	white, black

### EU-R-8bw

#### WIRELESS ROOM REGULATOR WITH HUMIDITY SENSOR

- air temperature measurement and control,
- measures air humidity,
- heating program with time limit,
- LCD display without backlight,



power / communications	battery 2xAAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	80 x 80 x 16	white, black

### EU-R-8z

#### WIRELESS ROOM REGULATOR

- air temperature measurement and control,
- heating program with time limit,
- LED display with backlight,
- 5V power supply included in the set mountable in an electrical box  $\varnothing$ 60 mm,



power / communications	5V / 230V 50Hz	wireless 868 MHz
dimensions [mm] / colour	80 x 80 x 16	white, black



### EU-C-8zr

WIRELESS OUTSIDE TEMPERATURE SENSOR

- air temperature measurement,

power / communications	battery 2xAAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	80 x 50 x 20	white



### EU-C-2n

WIRELESS WINDOW OPENING SENSOR

- window opening signal, ;
- heating control,
- compact dimensions,
- discreet design,
- long-life battery,

power / communications	battery EVE ER14250 S	wireless 868 MHz
dimensions [mm] / colour	73 x 32 x 19, 37 x 10 x 10	white, antracite, brown, golden oak



### EU-MW-1 / EU-MW-1 - 230

WIRELESS EXECUTIVE MODULE

- voltage-free relay, **MW-1**:  
output load contact 1A/230V/50Hz
- voltage relay, **MW-1/230**  
output load contact 1A/230V/50Hz
- automatically turns off when communication is lost

power / communications	230V 50Hz	wireless 868 MHz
dimensions [mm] / colour	50 x 80 x 60	white



### EU-RP-3

SIGNAL REPEATER

- It sends signal between wireless devices increasing the signal coverage/range

power / communications	230V 50Hz	wireless 868 MHz
dimensions [mm] / colour	50 x 80 x 60	white

### EU-RP-4

#### SIGNAL REPEATER



- It sends signal between wireless devices increasing the signal coverage/range,
- compact dimensions,
- simplified handling ,

power / communications	230V 50Hz	wireless 868 MHz
dimensions [mm] / colour	60 x 60 x 76	white

### EU-STT-868

#### WIRELESS THERMOELECTRIC ACTUATOR



- output - nut with M30x1,5 screw thread
- possibility of using adapters for other types of valves
- RAN and RTDN adapters in set,

power / communications	battery 2xAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	82 x 83 x 49	white

### STT-869

#### WIRELESS THERMOELECTRIC ACTUATOR



- output - nut with M30x1,5 screw thread
- new transmission,
- pairing button on the outside of the casing,
- possibility of using adapters for other types of valves
- RAN and RTDN adapters in set,

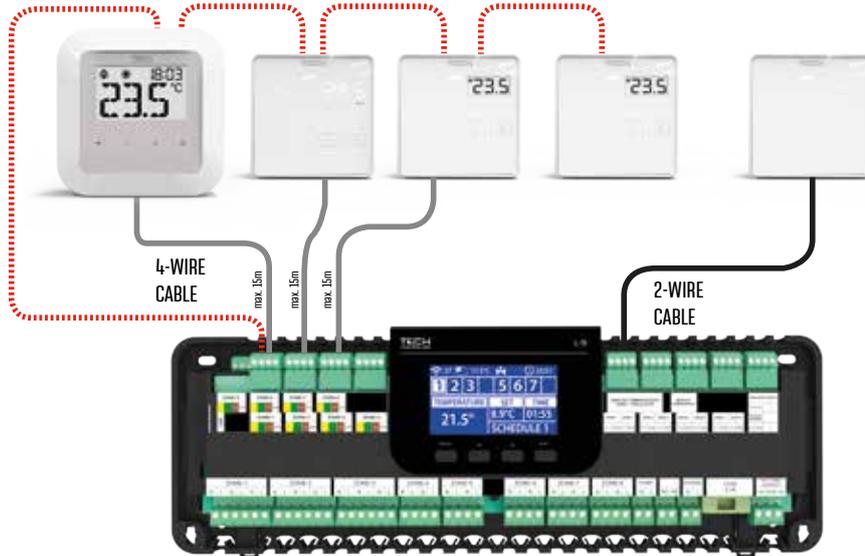
power / communications	battery 2xAA 1,5V	wireless 868 MHz
dimensions [mm] / colour	82 x 70 x 46	white



## CONNECTION DIAGRAM - ADDITIONAL EXTENSION

Optional series connection of controllers -  
device registration required!

MAX. 4 pcs  
Any pairing order

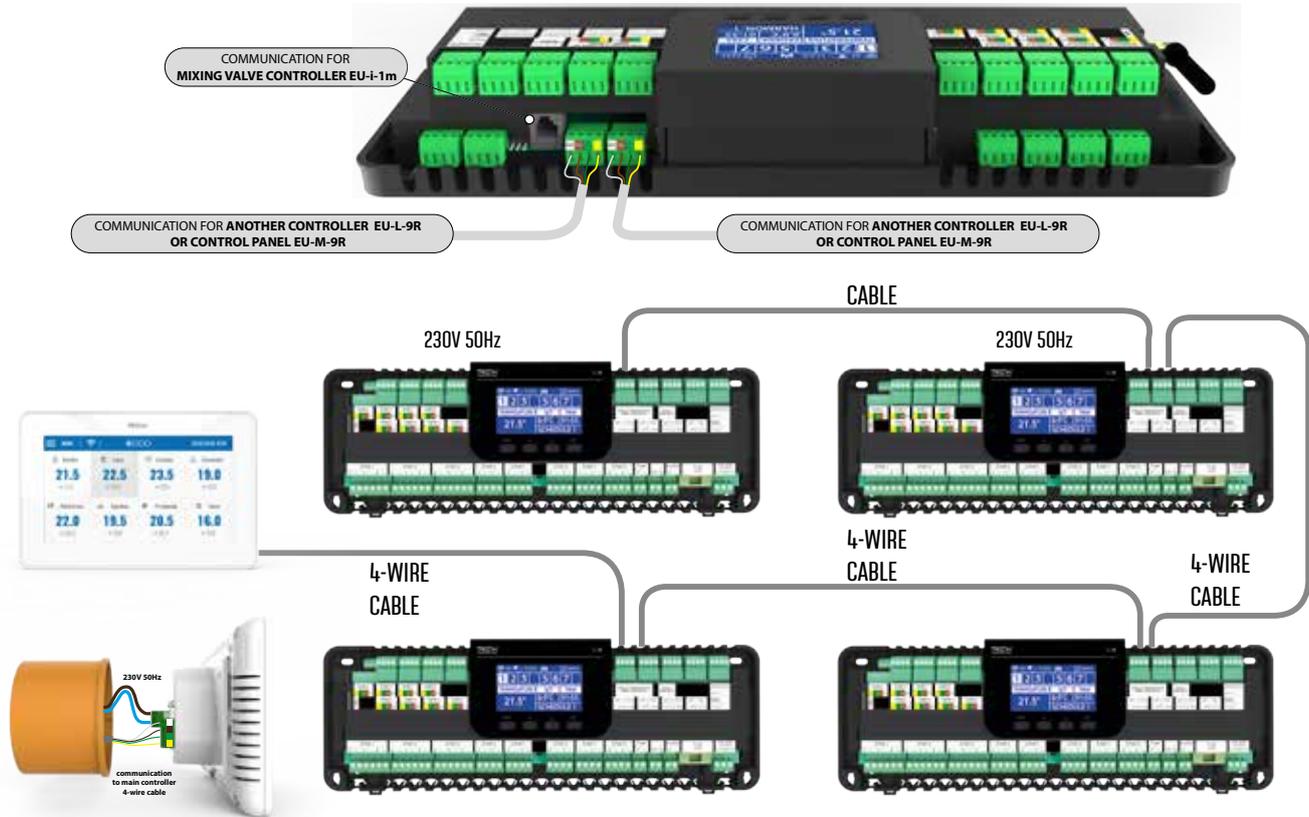


### WIRELESS EXTENSION



All elements from page 36-39

## CONNECTION DIAGRAM - COMMUNICATIONS BETWEEN CONTROLLERS





### STT-230/2

THERMOELECTRIC ACTUATOR

- fittings - nut with M30 x 1,5 screw thread or M28x1,5
- class - IP54,
- max. operation temperature 60 °C

power / work power	230V 50Hz	2W
opening time / stroke	<5 min.	4,5mm



### STT-230/2 S

THERMOELECTRIC ACTUATOR

- fittings - nut with M30 x 1,5 screw thread
- class - IP50,
- max. operation temperature 60 °C

power / work power	230V 50Hz	3,5W
opening time / stroke	~ 3 min.	3,6mm



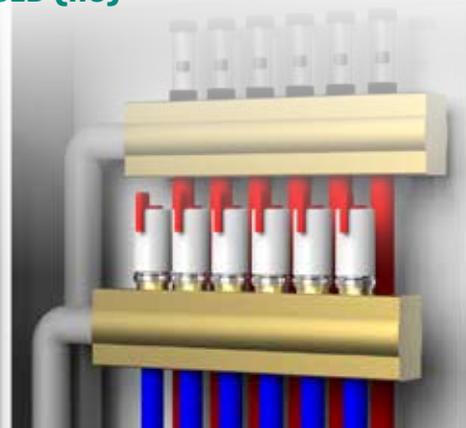
### STT-230/2 T

THERMOELECTRIC ACTUATOR

- fittings - nut with M30 x 1,5 screw thread
- class - IP54,
- max. operation temperature 60 °C

power / work power	230V 50Hz	3W
opening time / stroke	~ 3,5 min.	5mm

## THERMOELECTRIC ACTUATORS 230V NORMALLY CLOSED (NC)



## WIRED EXTENSION EU-L-8e - ADDITIONAL MODULES

### EU-507

#### INTERNET MODULE



- remote control of the floor heating system via eModul
- LAN connection,
- power supply 5V

power / communications	5V / 230V 50Hz	wired RS
dimensions [mm] / colour	120 x 80 x 31	black

### EU-WiFi RS

#### INTERNET MODULE



- remote control of the floor heating system via eModul
- WiFi connection
- web standard 2.4 MHz b/g/n
- power supply 5V

power / communications	5V / 230V 50Hz	wired RS
dimensions [mm] / colour	105 x 135 x 28	white

## WIRED EXTENSION EU-L-8e, EU-L-9r - ADDITIONAL MODULES

### EU-i-1m

#### MIXING VALVE CONTROLLER



- smooth control of a three or four-way valve,
- control of the valve pump,
- return temperature protection,
- weather-based control,
- weekly work schedule,

power / communications	230V 50Hz	wired RS
dimensions [mm] / colour	110 x 163 x 57	white

### STZ-180 T

#### MIXING VALVE ACTUATOR

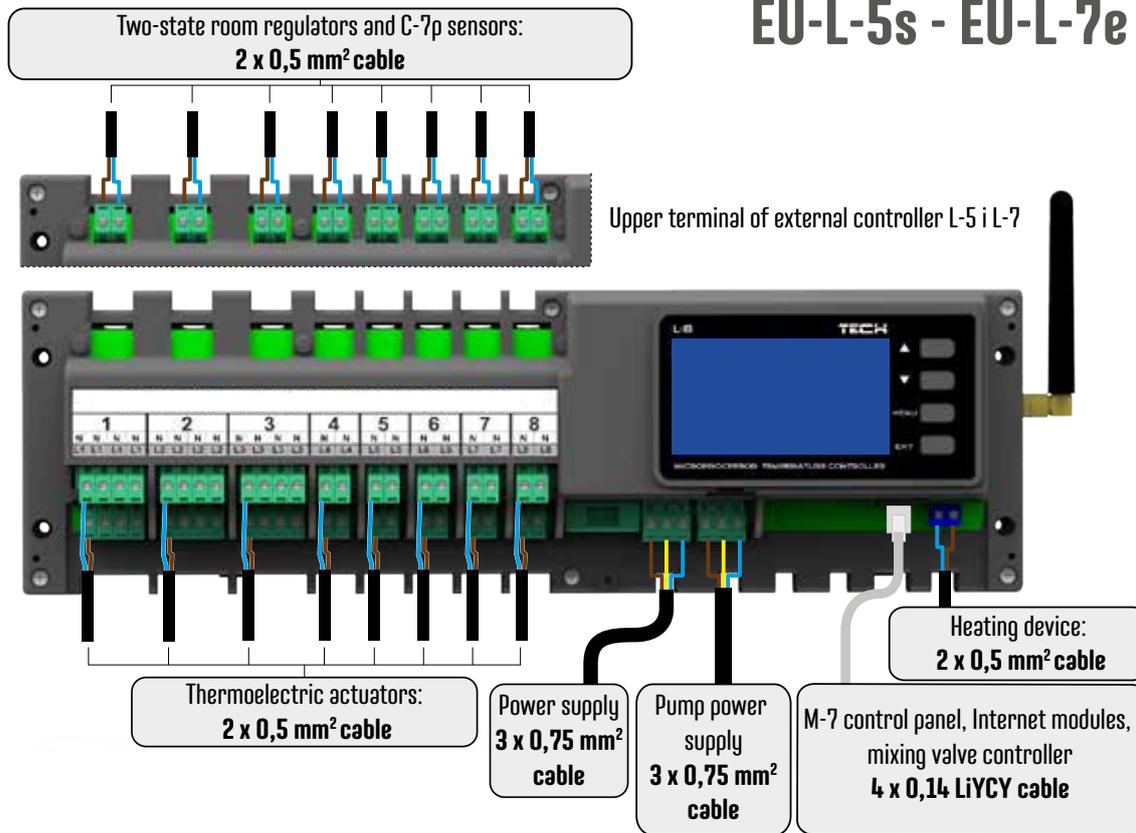


- smooth control of a three or four-way valve,
- 3-point signal control,
- manual control,
- cooperation with valves: **ESBE, Afriso, Herz, Womix, Honeywell, Wita**

power / 90° turning time	230V 50Hz	180s
dimensions [mm] / colour	75 x 80 x 105	black

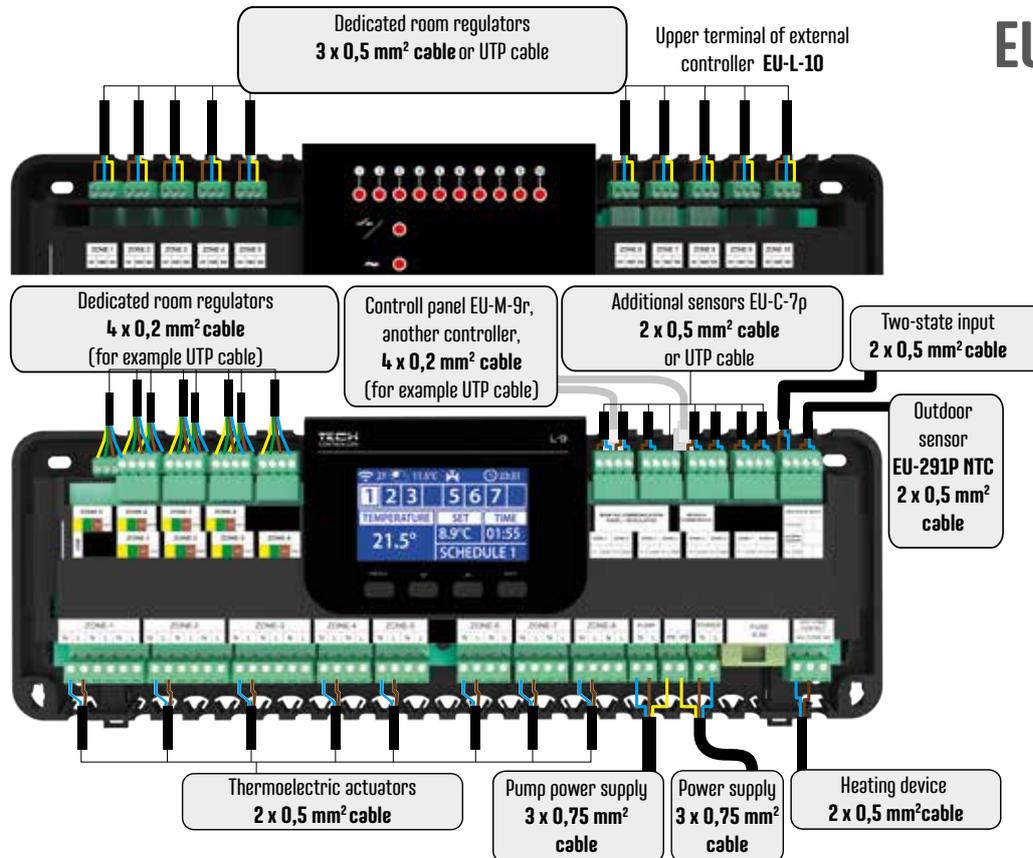
# RECOMMENDED CABLE DIAMETERS FOR CONNECTING PARTICULAR SYSTEM MODULES

## EU-L-5s - EU-L-7e EU-L-8e



# RECOMMENDED CABLE DIAMETERS FOR CONNECTING PARTICULAR SYSTEM MODULES

## EU-L-9r - EU-L-10



# EU-513

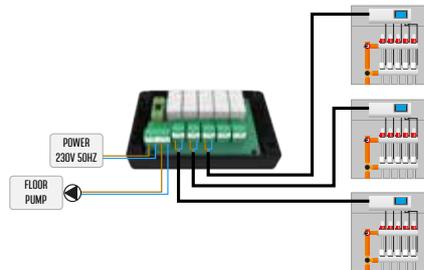
## Inputs integrator 230V

### Functions:

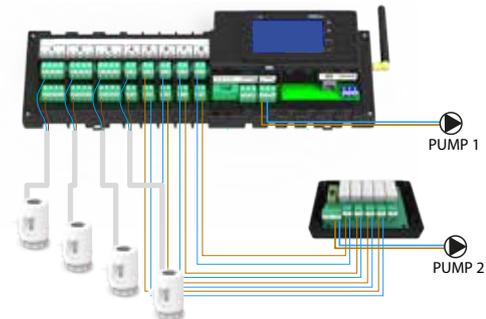
- Integration of 5 voltage inputs, control of one 230V output
- output 230 V
- inputs from 1-5 230V

power / output	230V 50Hz	230V 50Hz
dimensions [mm]	120 x 80 x 40	
output load / fuse	1 A	3,15 A

### Integration of pump outputs from floor heating controllers



### Integration of actuator outputs for starting an additional pump

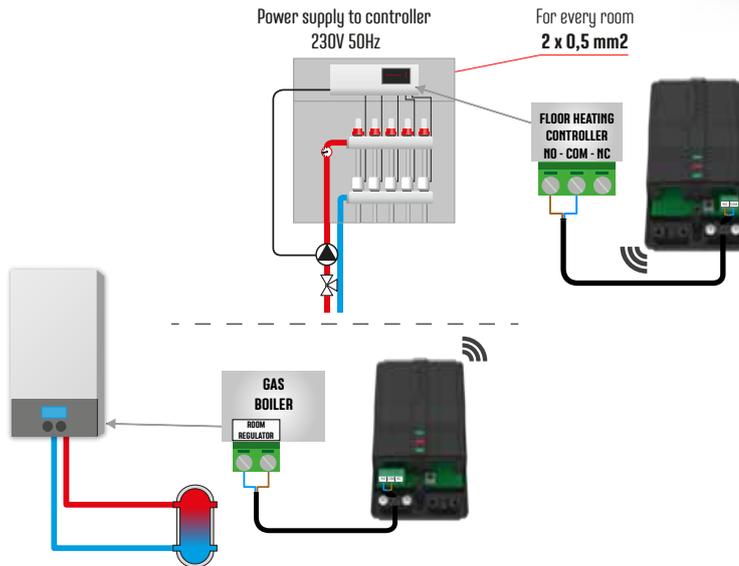


# EU-262

## Set for wireless rs communication

### Functions:

- Universal communication set for all models of two-state room regulators



# Notes