

ENERGY CONTROL IN YOUR HOME

PRODUCT CATALOG



About our company

We are a modern brand in the heating control industry. Our technicians take a close look at the heating market. We know its strengths and weaknesses. We know what customers want. We know what problems they encounter during the winter season. We create devices which solve those problems.



Our values

We want to provide our customers with convenience with minimal impact on nature. We focus on ecological responsibility and proven technologies.

We believe that technology is for people - never the other way around

What makes us different?

Energy efficiency

Heating control saves energy. We use only as much as we need. As a result, the house is always optimally heated and the bills are lower.



New solutions

We use only modern, efficient technology in our devices. We are also open for cooperation with other future automations (Tuya Smart).



Guarantee

When designing products, we pay attention to details. We test, check and control the quality and functionality of our products. This allows us to offer a long warranty period and free advice before and after purchase as standard.



Opportunities

We are moving in an eco-friendly direction. Less energy consumption helps the environment. Our equipment - thanks to its efficiency - gives an opportunity to relieve the burden on nature.





ENGO Controls - user benefits

We want to provide solutions that fit your lifestyle. We are here to ensure you feel great in your own home.

- | | |
|---|--|
|  Comfortably heated interiors |  5-year product warranty, at no extra charge |
|  Savings in the household budget |  Trouble-free service |
|  High-quality manufacturing and operations of control devices |  Increase in property value |
|  Is fully automatic and long-lasting |  Our system is easy to operate with well-thought functioning |
|  Provides regular updates: new features, new models |  Gives efficient performance in a variety of weather conditions |

We want our products to be a part of your pleasant home atmosphere

ENGO Smart

ENGO Smart app is based on the world famous Tuya Smart system for controlling devices in a smart home. Its greatest advantage is versatility: it supports many products of many various brands. In one app you can control devices of different types.

For example:

- heating system
- bulbs, lamps, LED stripes
- light and power switches
- window roller blinds, garage doors
- alarm sensors, cameras
- domestic appliances and devices
- air filters

The advantages are enormous! You can choose from thousands of different offers, decide on the type and brand of product, and then combine everything into a system operated by a single app **ENGO Smart** in Tuya Smart.

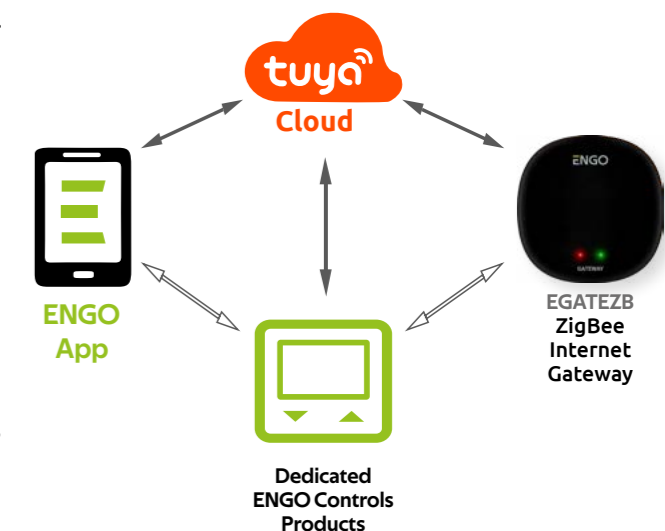
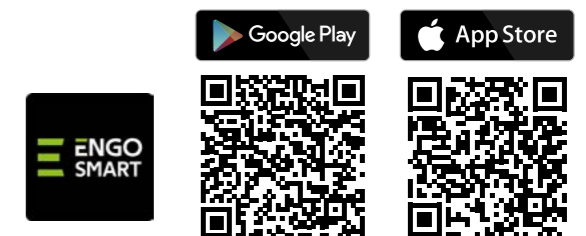
Universal smart home

ENGO Controls devices adapt to the needs of each building. In connection with each other, they create a reliable and modern heating control system.

We offer both products working in a Wi-Fi network (communication through a router), as well as working with the ZigBee 3.0 protocol, where communication is done via an Internet gateway.

ENGO Smart app provides remote control of devices. The ZigBee network via the Internet gateway keeps the created rules working even when the Internet connection is missing.

The application allows building automatic action sequences. Devices turn on or off depending on: the designated time, sunrise/sunset, temperature, signal received from another device.



ENG0 Controls - benefits for the installer

We value installers and respect their time. Therefore, we take special care that the cooperation in the field of installation and commissioning of our systems is the best.

- 

Individual approach to each installation
- 

Increased number of orders: the client regularly expands the system
- 

Assigned mentor for a given investment
- 

Skill growth: technical assistance and training for the installation team
- 

Quick, direct contact with the technical department
- 

Marketing support for companies cooperating with ENG0 Controls
- 

Complies with EU Directive (CE Certificate)
- 

We are open to global technologies (Tuya Smart)



The advantages of heating control - it's worth trusting us!

Saving energy

The heating control system reduces energy consumption to the necessary minimum. Only the minimum required amount of heating fuel is used to heat the building - all according to the needs and individual decisions of residents. As a result, winter bills can be lower and the environment less polluted. It is worth remembering that economy goes hand in hand with ecology. Lower emissions of harmful combustion products into the atmosphere means cleaner air. The fight against smog starts in our homes and it's most effective there.

A properly heated home

Thanks to clever heating control, the room temperature is set by the occupants. This is ensured by practical heating schedules and the so-called ZONE CONTROL. Remember that if heating of a building is based on measurements from only one room (e.g. living room, where the thermostat has been installed), the temperature in other rooms is always random. This is neither efficient nor comfortable. ZONE CONTROL solves this problem - it allows you to manage the heat of each room separately.

Healthier living

A well heated house is cheaper to maintain, ecological but also much healthier. We gain better mood and greater comfort of living. We do not think about it everyday, but the temperature of the environment has an influence on our functioning. Efficient work, rest, good mood - thermal conditions affect it all. What is more, a proper home microclimate supports the respiratory and circulatory systems, improves the quality of sleep, stimulates concentration. Both overcooling and overheating are unhealthy. ZONE HEATING CONTROL eliminates these negative factors from our lives.





ENERGY CONTROL IN YOUR HOME

Choose the version for you and control your heating...

...by wire

The thermostat is connected directly to the heating device.

...wirelessly

Wireless communication is done between the thermostat and the receiver to which the heating device is connected.

The Wi-Fi and ZigBee series are compatible with the ENGO Smart app, which allows remote control via your phone.

Types of connections and communications in ENGO CONTROLS

In order to match the architectural characteristics of the building and the expectations of customers in the best possible way, our products are divided into four main groups:

ZIGBEE 3.0



ZIGBEE 3.0

Devices operating on the third generation ZigBee protocol. Communication is done through an Internet gateway, providing remote control via the ENGO Smart application if the gateway is connected to the Internet network.



EONE230B



EGATEZB

WI-FI 2,4GHZ



WI-FI 2,4GHZ

Devices working in a Wi-Fi network (communication via router), providing remote control via ENGO Smart application



E10B230WIFI



E901WIFI



STANDARD



STANDARD

Wired devices connected to a control box or to a heating device, without the possibility of control via ENGO Smart App.



E901RF



ESIMPLE230B

BOILER CONTROL



BOILER CONTROL

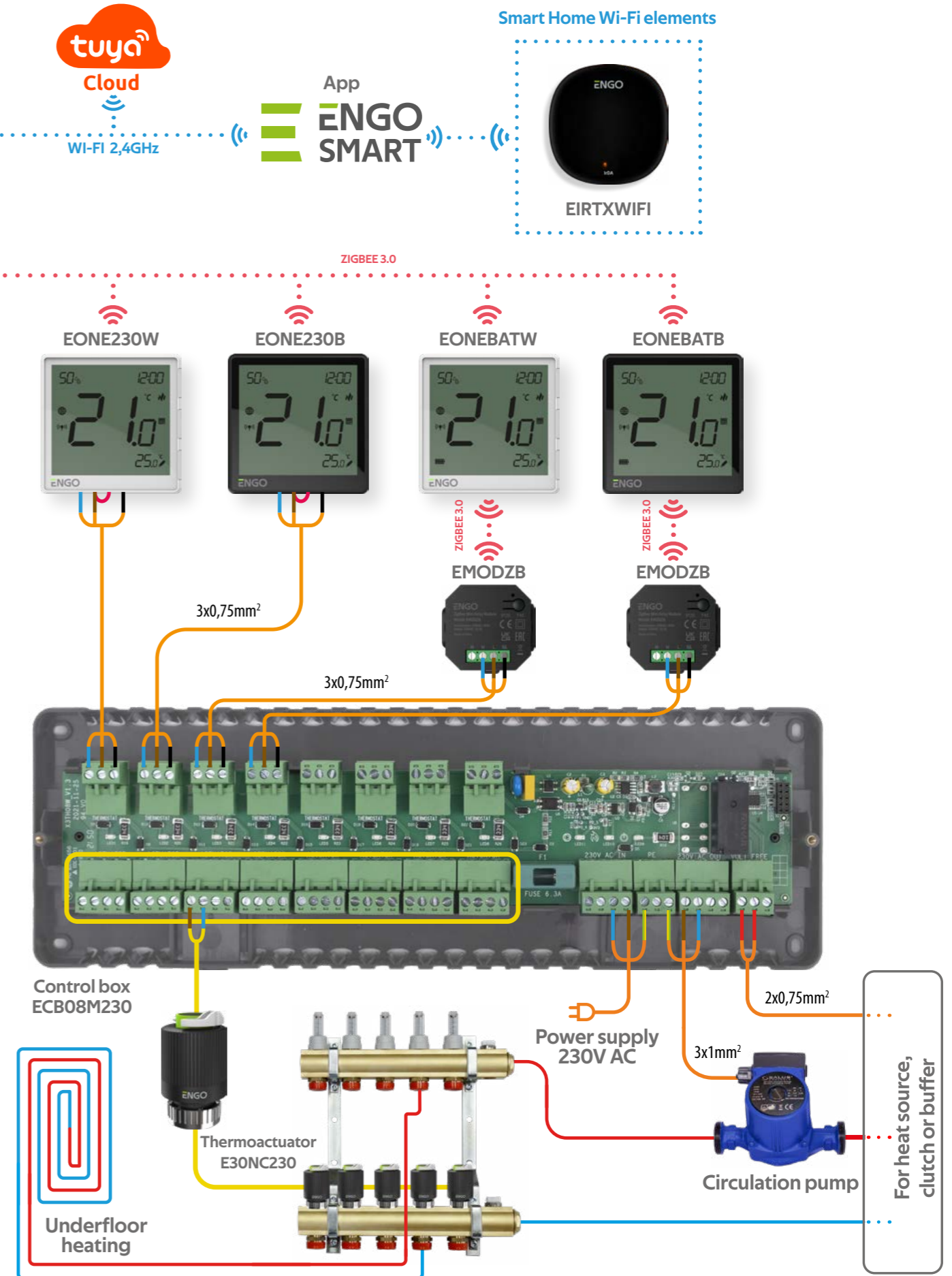
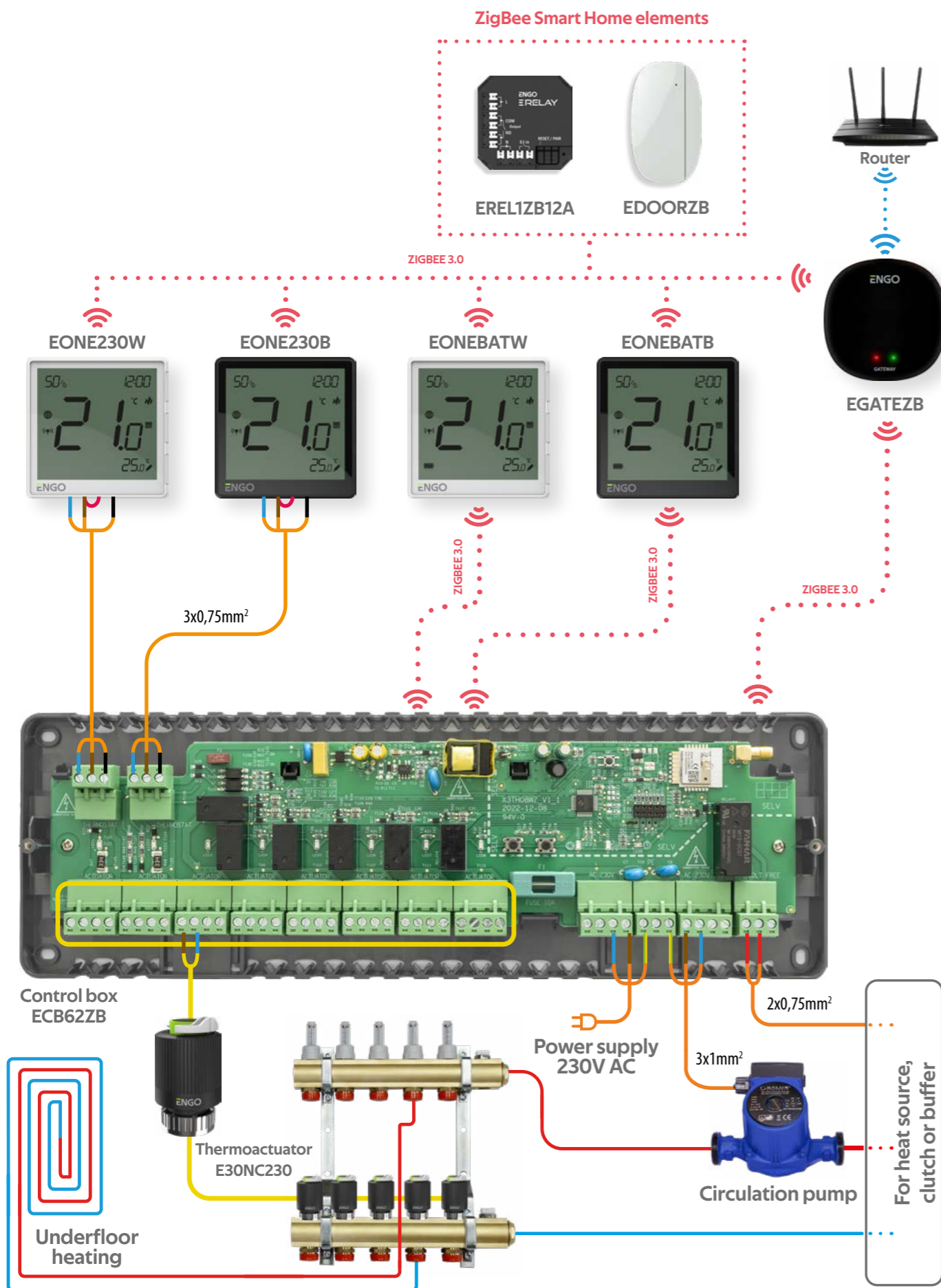
Devices connected directly to the heat source. You can choose between wired, wireless and Internet thermostats.



E901



EASY230B



ONE

ZigBee Smart Thermostat

EONE230W / EONE230B

932342631 / 932342632 Flush-mounted 230V version

▶ AVAILABLE SOON

EONEBATW / EONEBATB

932342633 / 932342634 Surface-mounted battery version

▶ AVAILABLE SOON



Two color versions: white and black

ENGO ONE is an innovative temperature thermostat with built-in humidity sensor. It is a combination of modernity with precise operation and interesting design. It is characterized by simplicity of installation and operation. Both the surface-mounted battery version (built-in lithium-ion battery) and the flush-mounted 230V version, can be controlled wirelessly via the ENGO Smart app, using the ZigBee 3.0 EGATEZB gateway. The flush-mounted version is wired directly to the receiver (e.g. a control box). It is mainly designed to control underfloor heating systems.

The ENGO ZigBee series of devices is the only series that works with the Tuya system. It offers ENGO binding function, which allows connecting EONE thermostats to receivers directly (ECB62ZB control box, EMODZB module, EREL1ZB12A relay) using the EGATZB gateway. This allows to connect the devices without the need to create automation in the mobile application. The binding function ensures stable communication of devices online and offline (even without Internet or router connection).

* Full functionality of the device thanks to the use of ZigBee gateway EGATEZB

Product features:

- ZigBee 3.0 communication standard
- graphs with temperature history available in the app
- possibility of connecting additional NTC sensor
- a multitude of functions available in the ENGO Smart / Tuya Smart application
- push notifications from the app
- possibility to set the minimum and maximum set temperature
- adjustable display backlight strength
- ENGO binding function (binding of devices in Online and Offline mode)
- possibility to share devices with multiple users
- Programmable change of relay type (for 230V powered version)
- very easy to use
- comfort WARM FLOOR function

Choose the best version of the thermostat for you with an ultra-thin design and control your heating...



CONTROL BOX

Wireless Control Box for Underfloor Heating System

ECB62ZB

▶ AVAILABLE SOON 932341430



Power supply	230V AC 50Hz
Max current	10 (1) A
Communication	wired and wireless ZigBee 3.0
Input	2 wired zones
	6 ZigBee wireless zones
Outputs	Pump (230V)
	Boiler (NO/COM)
	Thermoelectric actuators (230V)
Dimensions [mm]	330 x 110 x 36

Control box allows to control the surface heating. It is equipped with voltage outputs 230V for the circulation pump, thermostats and thermoelectric actuators. The control box allows control of 8 heating zones in a combination of connections - 2 wired and 6 wireless temperature thermostats. It works with NC type actuators, such as E30NC230, E28NC230. The control box has a built-in module for controlling a heating device, e.g. boiler, heat pump (voltage-free output).

Wired control is performed by direct cable connection of thermostats to the control box. The thermostats can be battery operated (COM-NO contact) or powered by 230V AC. Wireless communication is performed in ZigBee 3.0 technology with dedicated temperature thermostats EONEBAT, EONE230 via EGATZB Internet gateway. In addition, by connecting the EGATZB gateway to the Internet, it is possible to control room temperature (EGATZB and ECB62RF compatible thermostats are required) using the free ENGO Smart/TUYA Smart mobile application.

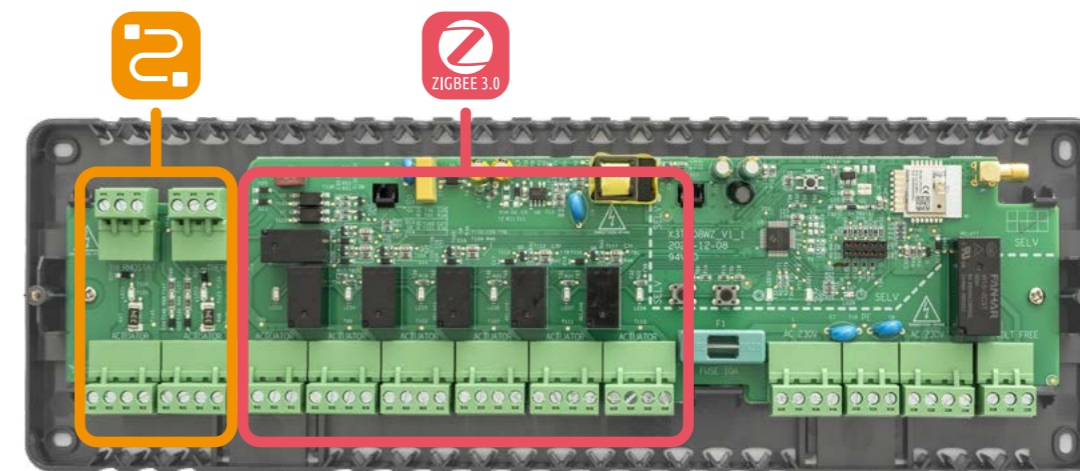
* Full functionality of the device thanks to the use of ZigBee gateway EGATEZB

Product features:

- 2 wired inputs, 6 wireless (ZigBee 3.0 network)
- built-in heat source control module (voltage free contact)
- adapted for mounting on a DIN rail
- control of 8 independent heating zones
- voltage output to control the circulation pump
- convenient, removable terminals for easy wire connections
- for each of 8 zones dedicated dual output socket for actuators
- 3 min time switching delay, built-in function for pump and boiler outputs
- ENGO binding function (binding of devices in Online and Offline mode)

2 zones for 230V wired or battery operated thermostats

6 zones for dedicated ZigBee wireless thermostats



EGATE

Universal Gateway ZigBee

EGATEZB

932341273



Power supply	5V DC mini USB
Communication	ZigBee 3.0 2,4GHz WiFi 2,4GHz
Dimensions [mm]	72 x 72 x 21

EGATEZB is the main component needed to build a smart home system based on devices that will communicate using the ZigBee 3.0 data transmission protocol. The gateway collects data from all sensors, thermostats, actuators and other smart home system components connected to it. It is also responsible for the stability of the rules and created scenarios in the ZigBee network, even when there is no Internet access temporarily. That's why ZigBee systems are recommended when operational reliability is important and when you want to make sure that a thermostat, relay or opening sensor will work when there is no Internet access. The EGATEZB universal gateway connects to the Internet (router) via a 2.4GHz WiFi network. The gateway is compatible with the ENGO Smart / Tuya Smart application, where it is possible to make connections between ZigBee devices and Wi-Fi devices (compatible with the application) and create mutual scenarios. It should be noted that related devices communicating in the ZigBee standard will work without Internet access.

Product features:

- very easy to use and connect
- LEDs indicating operation status
- minimalistic design
- operation in ZigBee 3.0 standard
- very small size of the device
- ENGO binding function (binding of devices in Online and Offline mode)

ERELAY

ZigBee Relay Module 12A

EREL1ZB12A

▶ AVAILABLE SOON 932343974



Power supply	230V AC 50Hz
Max current	12A
Communication	ZigBee 3.0 2,4GHz
Control output	NO/COM (voltage free)
Dimensions [mm]	48 x 48 x 20

The product is designed for an intelligent control of devices that require potential-free control. The voltage-free output makes it possible to control devices that require 230V. The size of the module allows it to be placed in a flush-mounted installation box. It can be used as a boiler control relay for a heating system ("normally open" output logic) or a heat pump. It operates according to programmed schedules or scenarios (e.g., operation dependent on the operation of other system components, such as a window/door sensor or temperature thermostat). The module can be controlled remotely (via smartphone and the ENGO Smart/Tuya app) or locally with a bistable/monostable connector. In order to use this device, it is necessary to have a universal ZigBee 3.0 gateway.

* Full functionality of the device thanks to the use of ZigBee gateway EGATEZB

Product features:

- multiple functions available in the ENGO Smart / Tuya Smart application
- small dimensions
- ENGO binding function (binding of devices in Online and Offline mode)
- Voltage-free output
- works as a repeater

ERELAY

ZigBee Mini Relay Module / Repeater

EMODZB

932342371



Power supply	230V AC 50Hz
Max current	3 (1) A
Communication	ZigBee 3.0 2,4GHz
Control output	230V AC
Dimensions [mm]	40 x 40 x 20

The EMODZB wireless module is designed to connect to wired underfloor control boxes, such as the ECB08M230, or to work with the wired zones of the ECB62ZB control box. It can be paired with EONE series thermostat. When it is added to the ENGO Smart / TUYA Smart the device also works independently. The module is a repeater of the ZigBee 3.0 network - it is increasing its range. The operating status is indicated by an LED. The device can be mounted flush or on a DIN rail.

* Full functionality of the device thanks to the use of ZigBee gateway EGATEZB

Product features:

- multiple functions available from the ENGO Smart / Tuya Smart app
- wireless communication in ZigBee 3.0 standard
- ENGO binding function (binding of devices in Online and Offline mode)

EREPEATER

Repeater ZigBee

EREPEATERZB

932343975



Power supply	230V AC 50Hz
Communication	ZigBee 3.0 2,4GHz
Dimensions [mm]	40 x 24 x 82

The device increases the range of the ZigBee 3.0 wireless network in a control system based on ENGO EGATEZB gateway. It is useful where wireless connectivity is weak because of distance or obstacles (concrete walls, reinforced ceilings, etc.). Repeater is an addition to the system and does not work independently. For its proper operation, a ZigBee 3.0 gateway (EGATEZB) is required, available in the offer.

Product features:

- wireless communication in ZigBee 3.0 standard
- LED indicating operation status
- small size of the device

EDOOR

ZigBee Door/Window Sensor

EDOORZB

932343972



Power supply	CR2450
Communication	ZigBee 3.0, 2.4GHz
Dimensions [mm]	72 x 42 x 16

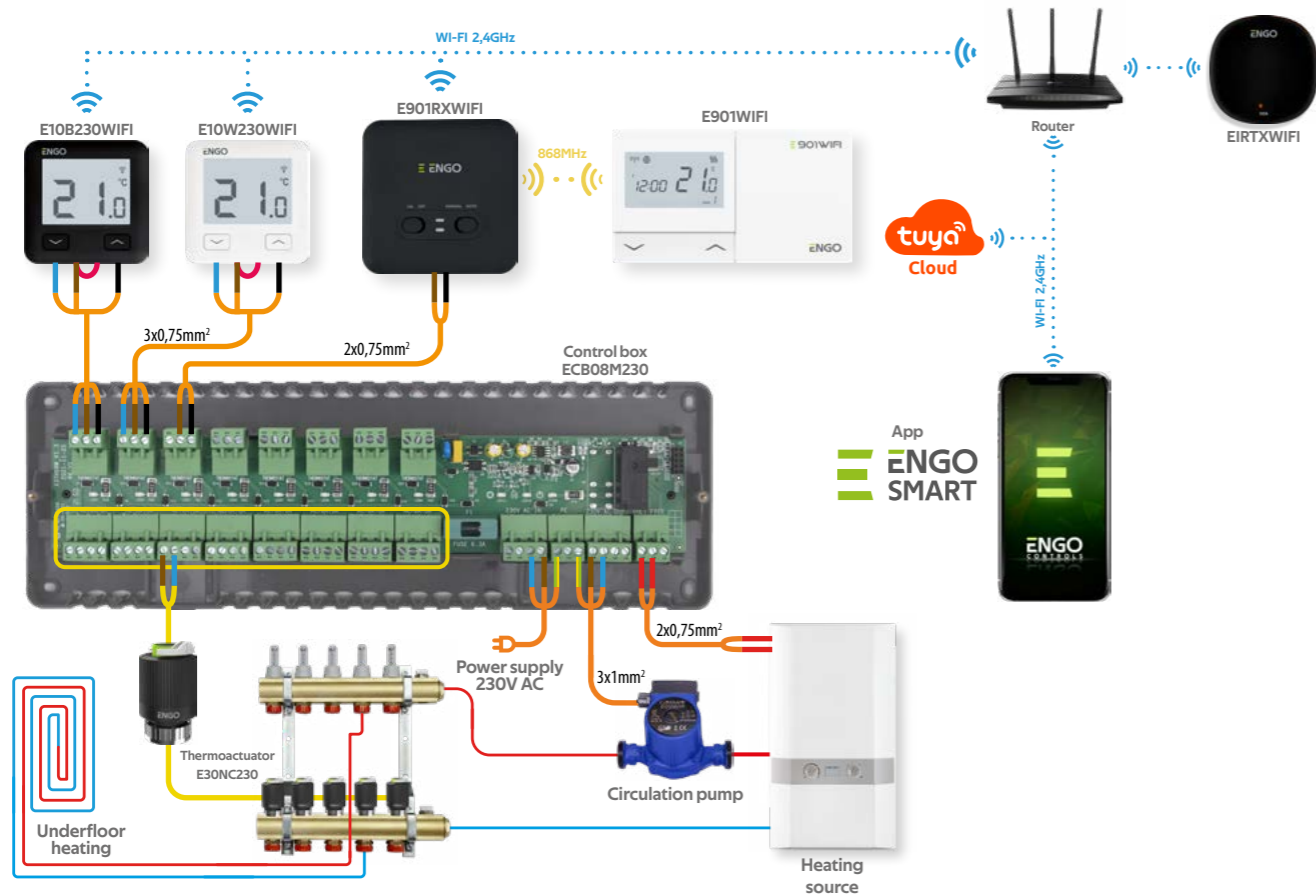
EDOORZB is a battery-operated magnetic sensor, compatible with the ZigBee 3.0 standard. A change in the status of the device automatically sends a signal to a ZigBee Internet gateway (e.g. EGATEZB). It can be used to create rules for the operation of home appliances (scenes) and where you need information about the opening or closing of doors, windows, garage doors, etc. Using the ENGO Smart app, it is possible to create a relation between the window opening sensor and the room temperature thermostat (e.g. if the window is opened, the heating or air conditioning is turned off). The opening is detected based on the distance between the sensor and the magnet. The product is designed for indoor use only.

* Full functionality of the device thanks to the use of ZigBee gateway EGATEZB

Product features:

- wireless communication in ZigBee 3.0 standard
- LED indicating operation status
- small size of the device

Wi-Fi wired and wireless underfloor heating control



Wi-Fi Thermostat E10W230WIFI / E10B230WIFI 932312902 / 932312901



Power supply	230V AC 50Hz
Max current	3 (1) A
Temp. setpoint range	5 – 45°C
Display temp. accuracy	0.1°C
Control algorithm	TPI or hysteresis (±0.1°C to ±0.5°C)
Communication	WiFi 2,4 GHz
Input S1 and S2	Floor temp. sensor or Air temp. measurement
Control output	NO/COM (voltage-free relay)
Protection class	IP30
Dimensions [mm]	86 x 86 x 39 (14 after mounting in a box with a diameter of 60)

Two color versions: white and black

E10 is a wired temperature thermostat with a WiFi and Bluetooth module. It enables economic and ecological control of any type of heating. Provides remote control of the heating system using the ENGO Smart / Tuya Smart application. It is characterized by a clear menu and a multitude of useful functions. Programming the E10 is very simple and allows you to adjust the heating cycle to your daily rhythm. The model is available in white and black.

Product features:

- very easy to use
- for Underfloor or Heating Source control
- possibility to set the minimum and maximum setpoint temperature range
- multiple functions available from the ENGO Smart / Tuya Smart app
- precise TPI temperature control algorithm
- diagrams with temperature history (available in the app)
- external temperature sensor input
- push notifications from the app
- NO-COM Volt-Free output 3(1)A

E901WIFI Wireless, Internet Thermostat, Wi-Fi E901WIFI 932322661



Thermostat power supply	2 x AA alkaline batteries
Receiver power supply	230V AC 50Hz
Max load of the receiver	16 (5) A
Receiver output signal	NO/COM voltage free relay
Temperature control range	5 – 35°C
Display temp. accuracy	0.1°C or 0.5°C
Control algorithm	TPI
Communication	Hysteresis (±0.25°C or ±0.5°C)
	Wireless, 868 MHz
	WiFi
Dimensions [mm]	transmitter: 150 x 84 x 22 receiver: 96 x 96 x 27

Included: thermostat transmitter (E901TXWIFI), thermostat receiver (E901RXWIFI), thermostat stand

E901WIFI is a wireless Wi-Fi thermostat that allows economical and ecological control of any type of heating. It is characterized by a clear menu and a multitude of useful functions. The operation of the thermostat is very simple and allows the user to adjust the heating cycle to the users' daily rhythm. The built-in WiFi module (in the receiver) allows remote control of the heating system with a smartphone or tablet using the ENGO Smart / TUYA Smart app. The devices are pre-paired and ready for operation.

Product features:

- possibility of choosing Hysteresis or built-in TPI algorithm
- maximum / minimum temperature limitation
- device has unique transmission codes
- programmable change of relay type
- HEATING/COOLING function
- automatically renews the operating signal
- PIN lock
- multiple functions available from the ENGO Smart / Tuya Smart app

IRDA Wi-Fi IrDA Transmitter EIRTXWIFI 932313971



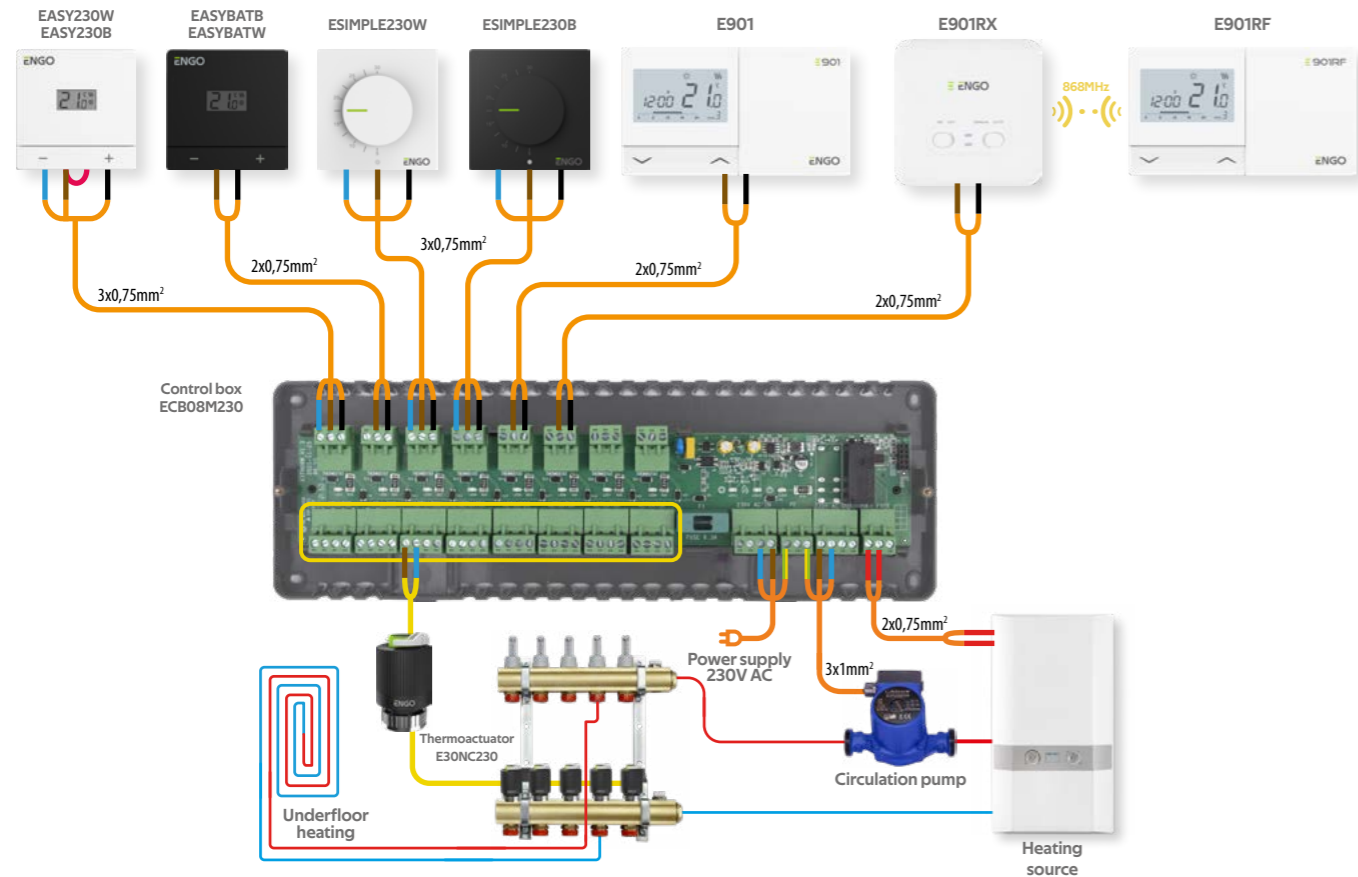
Power supply	5V DC mini USB
Communication	WiFi 2,4 GHz
Dimensions [mm]	72 x 72 x 21

EIRTXWIFI is a universal product that can replace a traditional remote control. It allows you to conveniently control various infrared receiving devices, such as TV, decoder, air conditioner, etc. It supports local and remote turning on/off of devices. In addition, using the ENGO Smart mobile app, you can create scenes to, for example, automatically turn on/off the TV or air conditioner (only when Wi-Fi is available).

Product features:

- universal infrared remote control
- Very easy to use and connect
- 2.4GHz Wi-Fi standard operation
- device works with most Irda devices on the market
- multiplicity of functions and control of devices in the ENGO Smart / TUYA Smart app
- minimalistic design

Underfloor heating control system



EASY
Wired Thermostat
EASY230W / EASY230B
 932332982 / 932332981 230V AC powered

EASYBATW / EASYBATB
 932332984 / 932332983 battery-powered



Two color versions: white and black

Wired temperature thermostat, battery powered (2xAAA) or 230V AC powered. It is used for wired control of heating or cooling devices and systems. It works by maintaining comfortable conditions in the room, in line with the constant temperature set by the user. It is connected directly to a heat source or control box. For a better fit, the model is available in two colors. Safe, reliable, easy to use.

Power supply	230V or 2xAAA batteries
Max current	3 (1) A
Temp. setpoint range	5 – 35°C
Display temp. accuracy	0.1°C
Control algorithm	TPI or hysteresis (±0.2°C to ±2°C)
Communication	Wired
Output control	NO/COM (voltage-free)
IP protection class	IP30
Dimensions [mm]	80 x 80 x 22

Product features:

- minimalistic design
- NO-COM Volt-Free output 3(1)A
- wired communication
- very easy to use
- LCD display
- selectable NO or NC relay type
- key lock function
- possibility to set the minimum and maximum setpoint temperature range
- hanger for wall mounting included
- for Underfloor or Heating Source control
- precise TPI temperature control algorithm
- HEAT/STANDBY/COOL Switch

Choose the version for you and control your heating...



Wired thermostat 230V
 EASY230W (White) or EASY230B (Black)

...power supply 230V

The thermostat is powered by 230V power supply. The thermostat is connected by wires to the heating device.



Battery-powered wired thermostat
 EASYBATW (White) or EASYBATB (Black)

...battery power supply

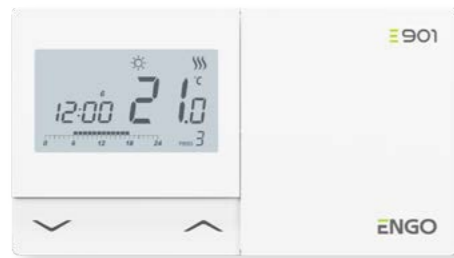
The thermostat is powered by 2xAAA batteries. The thermostat is connected by wires directly to the heating device.



E901 Programmable, Wired Thermostat

E901

932322911



Power supply	2 x AA batteries
Max current	5 (3) A
Output control	NO/COM (voltage-free relay)
Temp. setpoint range	5 – 35°C
Display temp. accuracy	0.1°C or 0.5°C
Control algorithm	TPI or hysteresis (±0.25°C or ±0.5°C)
Communication	Wired
Dimensions [mm]	150 x 84 x 22

E901 is a programmable, surface-mounted electronic room thermostat, used for controlling of heating devices (e.g. gas, oil boilers, heat pumps) or cooling devices. It allows creating personalised schedules. Thanks to the built-in algorithms, it offers much better temperature control accuracy than traditional mechanical thermostats. The thermostat is connected by wires directly to the heating device.

Product features:

- 2 methods of schedule programming
- selectable NO or NC relay type
- ability to choose a control algorithm: hysteresis or TPI
- works with HEATING & COOLING Systems
- minimum and maximum setpoint temperature limit
- PIN lock
- key lock function
- for Underfloor or Heating Source control

E901RF Programmable, Wireless Thermostat

E901RF

932322612



Thermostat supply	2 x AA batteries
Receiver supply	230V AC 50Hz
Receiver's max current	16 (5) A
Receiver's output signal	NO/COM (voltage-free relay)
Temp. setpoint range	5 – 35°C
Display temp. accuracy	0.1°C or 0.5°C
Control algorithm	TPI or hysteresis (±0.25°C or ±0.5°C)
Communication	Wireless, 868 Mhz
Dimensions [mm]	transmitter: 150 x 84 x 22 receiver: 96 x 96 x 27

Included: thermostat transmitter (E901TX), thermostat receiver (E901RX)

E901RF is a programmable, surface-mounted electronic room thermostat, used for control of heating devices (e.g. gas, oil boilers, heat pumps) or cooling devices. It has the function of creating your own schedules. Thanks to the built-in algorithms, it offers a much better temperature control accuracy than traditional mechanical thermostats. E901RF set is paired by factory. Receiver should be connected directly to a controlled device (e.g. gas boiler).

Product features:

- has all the features of E901 plus additional
- working range up to 100 m in open space
- unique transmission codes
- automatic signal renewal

ESIMPLE Simple Dial Thermostat 230V

ESIMPLE230B / ESIMPLE230W

▶ AVAILABLE SOON 932332986 / 932332985



Two color versions: white and black

ESIMPLE230B is designed to control surface heating/cooling, characterized by high thermal inertia. Adjustment of the set temperature in a room is made by using a knob. Thanks to built-in algorithms, it offers much better temperature control accuracy than traditional mechanical thermostats.

Product features:

- simple thermostat with knob
- two-color LED
- TPI algorithm ideal for underfloor heating
- surface mounting
- HEAT / COOL switch hidden under the knob

ERELAY Relay Module 12A

ERM12A

▶ AVAILABLE SOON 932252541



Power supply	230V AC 50Hz
Max current	12A
Inputs	NO/COM (voltage free) SL 230V AC voltage output signal
Control output	NO/COM/NC (voltage free)
Dimensions [mm]	48 x 48 x 20

It is used for switching on/off electrical devices. Thanks to its small dimensions, it can be installed in an installation box or in any location where it is needed to control a receiver with a maximum load of 12A. Application examples:

- Controlling a heating appliance (ON-OFF type) by connecting a 230V AC voltage thermostat such as ESIMPLE230 to the relay.
- Connecting a receiver with more power than the relay in a thermostat allows. The maximum current consumption of an electrical device must not exceed 12A.
- Relief of outputs in the control box (e.g. ECB08M) with ERM12A in case of use of a larger number of actuators per zone or high power receivers (e.g. electric heating mats)

Product features:

- LED indicating operation status
- Voltage-free output
- small size of the device

CONTROL BOX

Wired Control Box for Underfloor Heating System, 230V

ECB08M230

932331460



Power supply	230V AC 50Hz
Max current	6 (1) A
Outputs	Pump (230V) Boiler (NO/COM) Thermoelectric actuators (230V)
Dimensions [mm]	330 x 110 x 36

ECB08M230 control box is the main element of the underfloor heating control system. It has a built-in module that controls the heat sources (by volt-free relay) and pump (230V AC). The control box allows to control 8 different zones. It is equipped with 230V AC voltage outputs for actuators. Plug-gable terminal blocks provide quick and convenient wiring connections. The control box is designed to work with NC (normally-closed) type actuators.

Product features:

- control of 8 independent heating zones
- Volt-Free Boiler control output
- DIN rail holders
- designed for wired thermostats
- 230V Pump control output
- convenient, removable terminals for easy wire connections
- for each of 8 zones dedicated dual output socket for actuators
- Pump & Boiler 3min delay start feature
- very thin housing

ACTUATOR

Thermal Actuator, 230V, NC

E30NC230 / E28NC230*

932211671

▶ AVAILABLE SOON 932211572



Version	NC = normally closed
Thread size	M30 x 1.5mm / M28 x 1,5mm
Power supply	230V AC 50Hz
Power consumption	2W
Inrush current	300mA / 200ms
Pressing force	100N +/- 15%
Max. stroke	4.5mm
Storage temp.	-25°C / +60°C
Ambient temp.	Max. 60°C
IP protection class	IP 54/II
Power cord length [cm]	90cm
Dimensions [mm]	Φ 41 x 65

The thermoelectric actuator is intended for use with underfloor heating systems. It can be used with thermostatic valves in the manifold for underfloor heating or with zone valves. It allows to open or close the flow of the heating medium in a loop, which gives you the control on the room temperature. It cooperates directly with the thermostat or indirectly via control box.

Product features:

- „First Open“ function - makes the first installation easy
- small dimensions
- big stroke length
- fast opening time
- low power consumption
- modern design, high durability

PC

Pump Controller for CH system

EPC11

▶ AVAILABLE SOON 932362891



Power supply	230V AC 50Hz
Max load of the pump output	3 (1) A
Temp. measurement range	0 - 99°C
Setpoint temp. range	5 - 80°C
Sensor temp. range	-10 - 120°C
Sensor cable length	1,5m
Dimensions [mm]	155 x 70 x 39

It is designed to control the water pump in the central heating circuit. The task of the device is to turn on the pump if the temperature exceeds the desired value and turn it on if the boiler cools down (due to shutting down). This prevents unnecessary pump operation and extends its life, which saves electricity.

Product features:

- plug&play
- pump „anti-stop“ function
- manual mode
- sound alarm
- frost protection

PC

Pump Controller for CH or DHW system

EPC11W

▶ AVAILABLE SOON 932362892



Power supply	230V AC 50Hz
Max load of the pump output	3 (1) A
Temp. measurement range	0 - 99°C
Adjustable temp. range (ON)	5 - 80°C
Adjustable temp. range (OFF)	10 - 85°C
Sensor temp. range	-10 - 120°C
Sensor cable length	1,5m
Dimensions [mm]	155 x 70 x 39

It is designed to control the water pump in the central heating and hot water circulation. It also works as a safety thermostat. It has the ability to turn on and off the pump. The pump will start after exceeding the temperature set by the user „C“, and will turn off after exceeding the set off temperature „U“.

Product features:

- plug&play
- pump „anti-stop“ function
- manual mode
- sound alarm
- frost protection

PC Pump Controller for CH and DHW system EPC12HW

▶ AVAILABLE SOON 932362893



Power supply	230V AC 50Hz
Max load of the CH pump output	3 (1) A
Max load of the DHW pump output	3 (1) A
Temp. measurement range	0 - 99°C
Setpoint temp. range for CH	5 - 80°C
Setpoint temp. range for DHW	5 - 80°C
Sensor temp. range	-10 - 120°C
CH sensor cable length	1,5m
DHW sensor cable length	3m
Dimensions [mm]	155 x 70 x 39

The controller turns on when the boiler temperature exceeds the user-set central heating pump activation temperature. The DHW pump works on the basis of a temperature difference. The DHW pump is switched on when the boiler temperature exceeds the tank temperature by the hysteresis set by the user. The hot water pump works until the boiler and tank temperatures equalize or the set tank temperature is reached.

Product features:

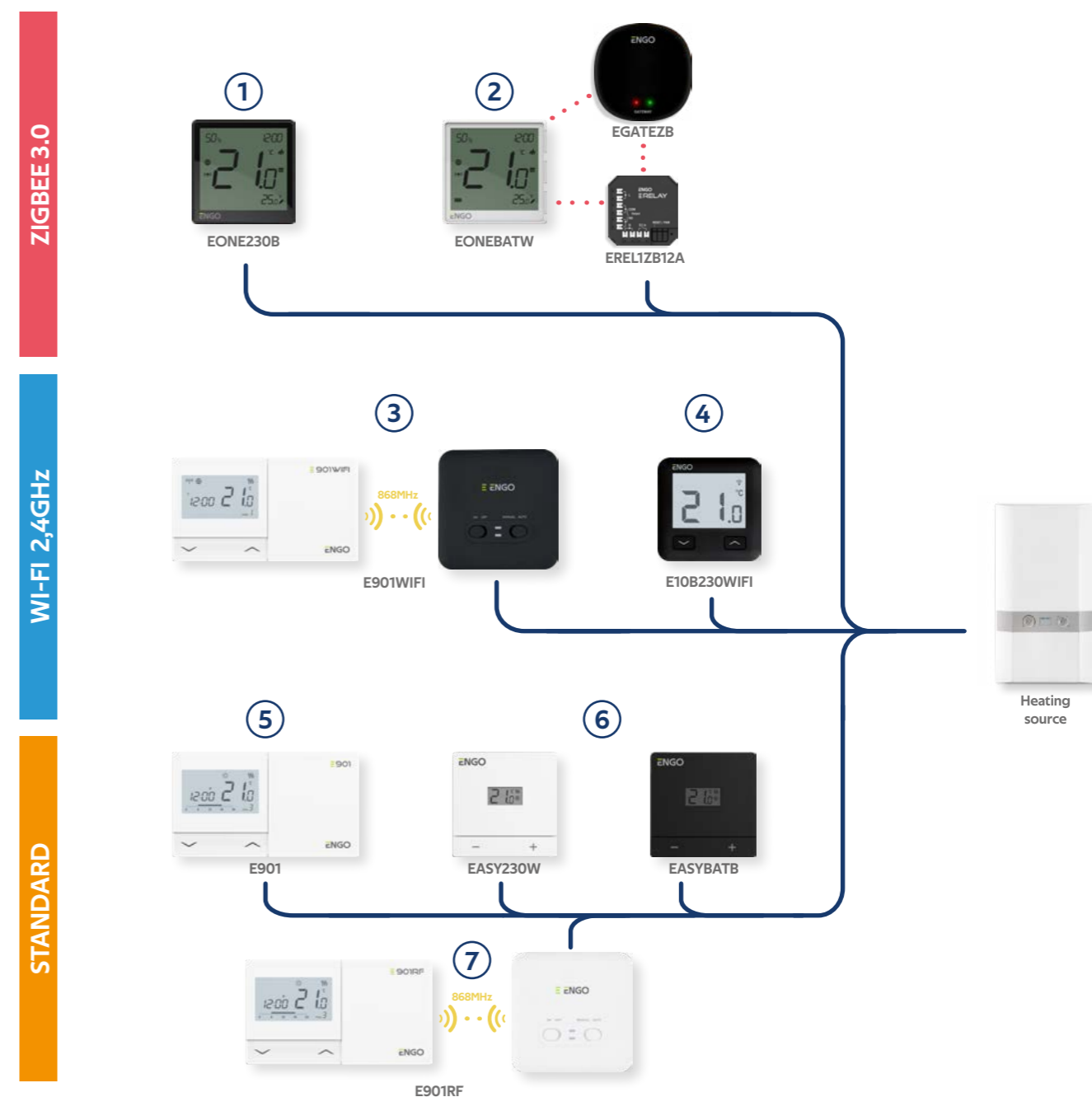
- plug&play
- manual mode
- frost protection
- summer mode
- pump „anti-stop“ function
- sound alarm
- DHW priority function

*Relief for your wallet, a breath for nature.
We look towards you. We look to the future.*



Boiler control

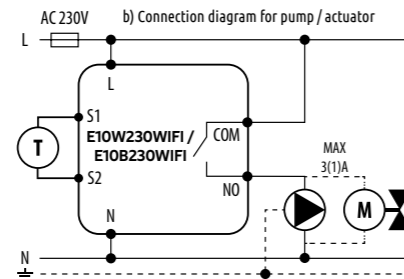
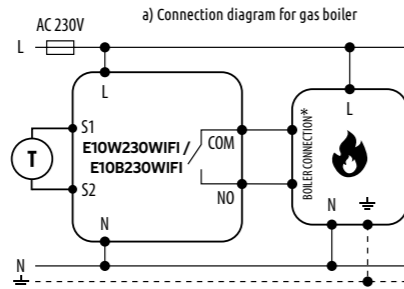
Choose your way to control the heat source. You can use traditional wired connection. When you don't have wired devices, use wireless ones. If you want to control the heating via an app, this is also an option. See the following solutions chosen by our customers.



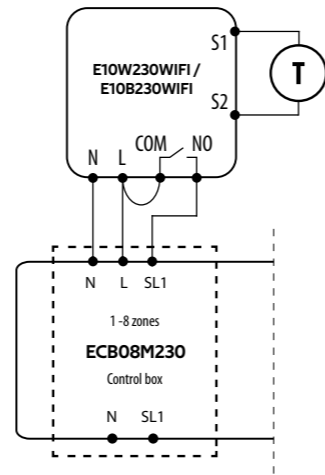
- Control the room temperature remotely or locally if you have wiring prepared.
- When you don't plan or don't have wired connection, use a wireless ZigBee connection to control heating devices.
- How about an easy-to-install and easy-to-use set that you can also control with the ENGO Smart App?
- Take advantage of your Wi-Fi, wiring and remote room temperature control capabilities.
- Looking for a standard solution? Choose a thermostat with a weekly mode of operation - set the days and hours of heating.
- Do you need something simpler? Control your heating by maintaining constant room temperature without programming.
- Program perfect schedules and take advantage of wireless operation - set the thermostat in the room, mount the receiver at the heating device.

E10W230WIFI / E10B230WIFI

Power supply	230V AC 50Hz
Max current	3 (1) A
Temp. setpoint range	5 – 45°C
Display temp. accuracy	0.1°C
Control algorithm	TPI or hysteresis (±0.1°C to ±0.5°C)
Communication	WiFi 2,4 GHz
Input S1 and S2	Floor temp. sensor or Air temp. measurement
Control output	NO/COM (voltage-free relay)
Protection class	IP30
Dimensions [mm]	86 x 86 x 39 (14 after mounting in a box with a diameter of 60)



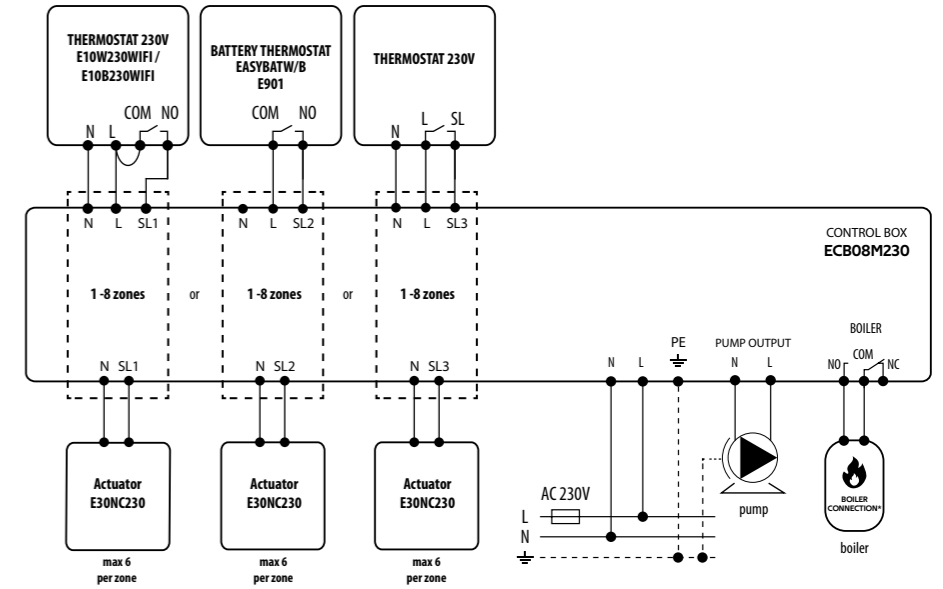
c) Connection diagram for the control box



ECB08M230

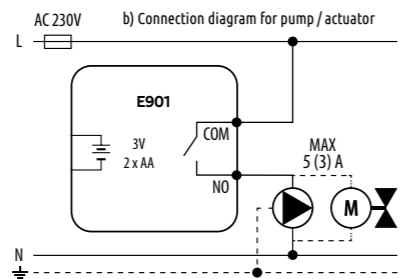
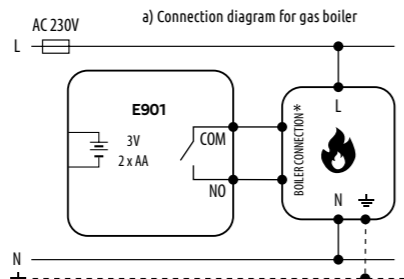
Power supply	230V AC 50Hz
Max current	6 (1) A
Outputs	Pump (230V) Boiler (NO/COM) Thermoelectric actuators (230V)
Dimensions [mm]	330 x 110 x 36

Connection diagram for the control box

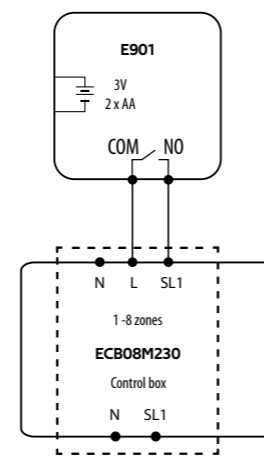


E901

Power supply	2 x AA batteries
Max current	5 (3) A
Output control	NO/COM (voltage-free relay)
Temp. setpoint range	5 – 35°C
Display temp. accuracy	0.1°C or 0.5°C
Control algorithm	TPI or hysteresis (±0.25°C or ±0.5°C)
Communication	Wired
Dimensions [mm]	150 x 84 x 22



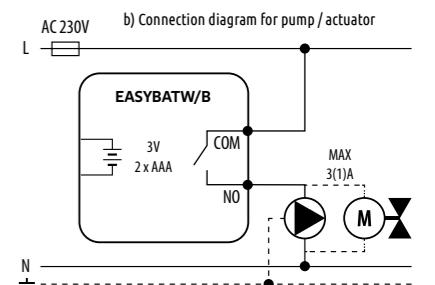
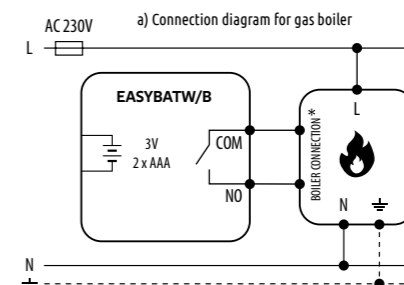
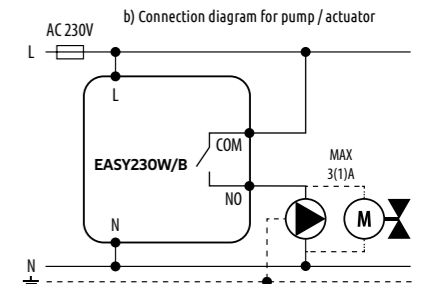
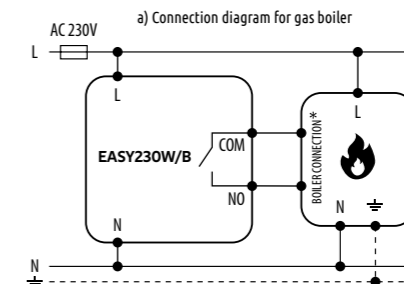
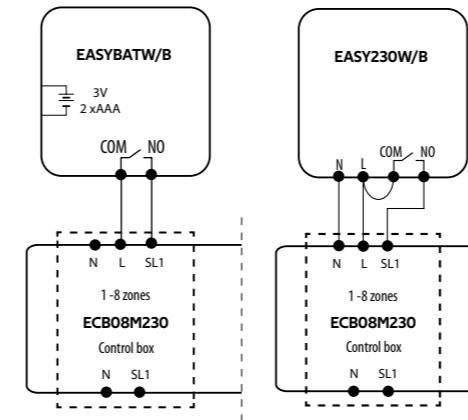
c) Connection diagram for the control box



EASY230W / EASY230B EASYBATW / EASYBATB

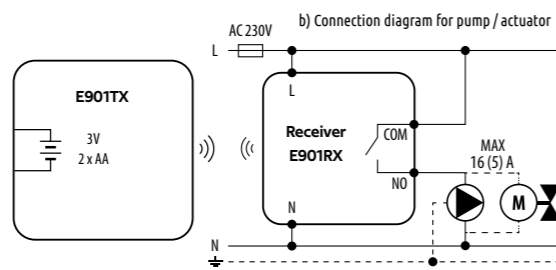
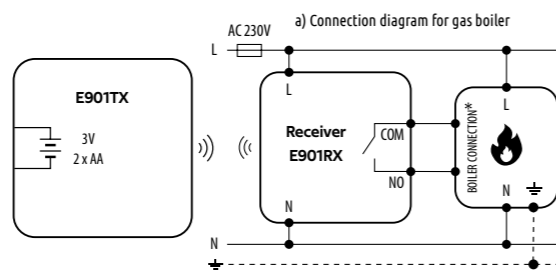
Power supply	230V or 2xAAA batteries
Max current	3 (1) A
Temp. setpoint range	5 – 35°C
Display temp. accuracy	0.1°C
Control algorithm	TPI or hysteresis (±0.2°C to ±2°C)
Communication	Wired
Output control	NO/COM (voltage-free)
IP protection class	IP30
Dimensions [mm]	80 x 80 x 22

c) Connection diagrams for the control box

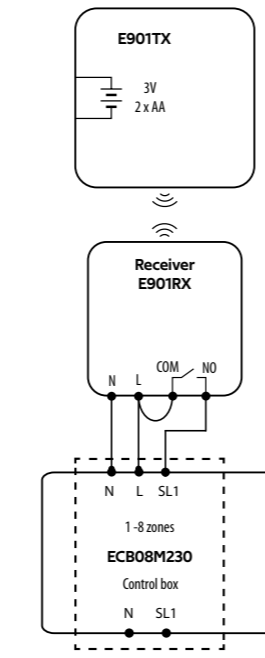


E901RF

Thermostat supply	2 x AA batteries
Receiver supply	230V AC 50Hz
Receiver's max current	16 (5) A
Receiver's output signal	NO/COM (voltage-free relay)
Temp. setpoint range	5 – 35°C
Display temp. accuracy	0.1°C or 0.5°C
Control algorithm	TPI or hysteresis (±0.25°C or ±0.5°C)
Communication	Wireless, 868 Mhz
Dimensions [mm]	transmitter: 150 x 84 x 22 receiver: 96 x 96 x 27



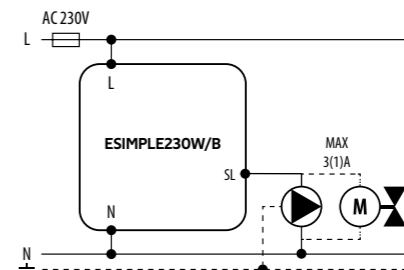
c) Connection diagram for the control box



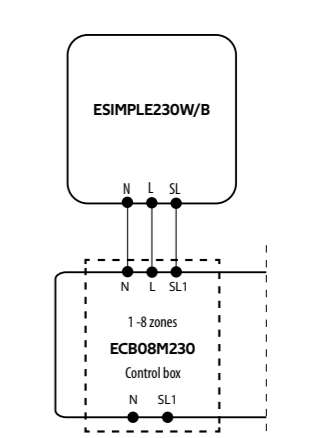
ESIMPLE230W / ESIMPLE230B

Power supply	230V AC 50Hz
Max current	3 (1) A
Temp. setpoint range	5 – 30°C
Control algorithm	TPI
Communication	Wired
Control output	230V AC
IP protection class	IP30
Dimensions [mm]	80 x 80 x 26

a) Connection diagram for pump / actuator

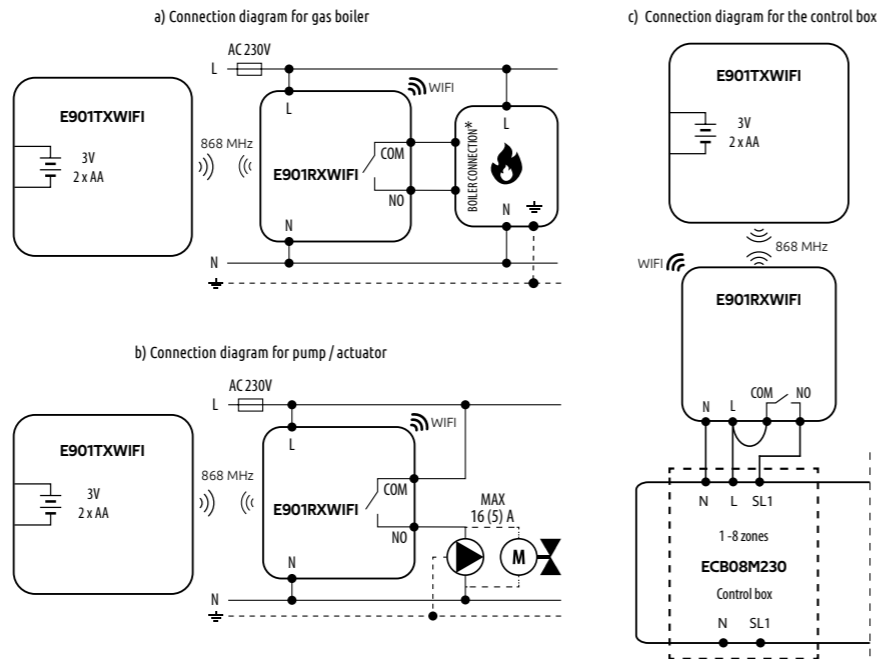


b) Connection diagram for the control box



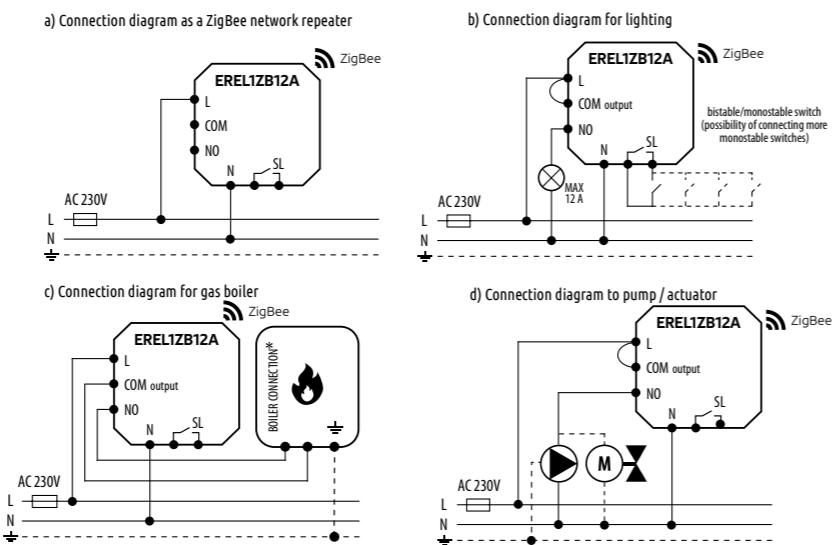
E901WIFI

Thermostat power supply	2 x AA alkaline batteries
Receiver power supply	230V AC 50Hz
Max load of the receiver	16 (5) A
Receiver output signal	NO/COM voltage free relay
Temperature control range	5 – 35°C
Display temp. accuracy	0.1°C or 0.5°C
Control algorithm	TPI
Communication	Wireless, 868 MHz
Dimensions [mm]	WiFi transmitter: 150 x 84 x 22 receiver: 96 x 96 x 27



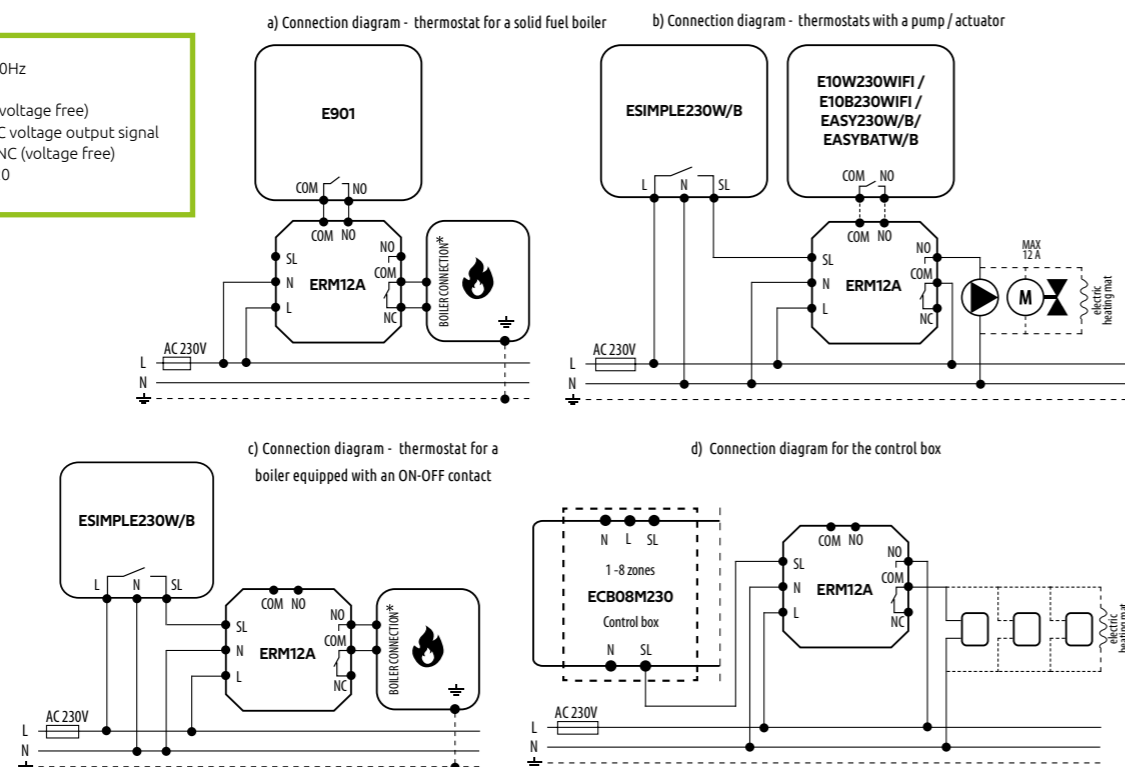
EREL1ZB12A

Power supply	230V AC 50Hz
Max current	12A
Communication	ZigBee 3.0 2,4GHz
Control output	NO/COM (voltage free)
Dimensions [mm]	48 x 48 x 20



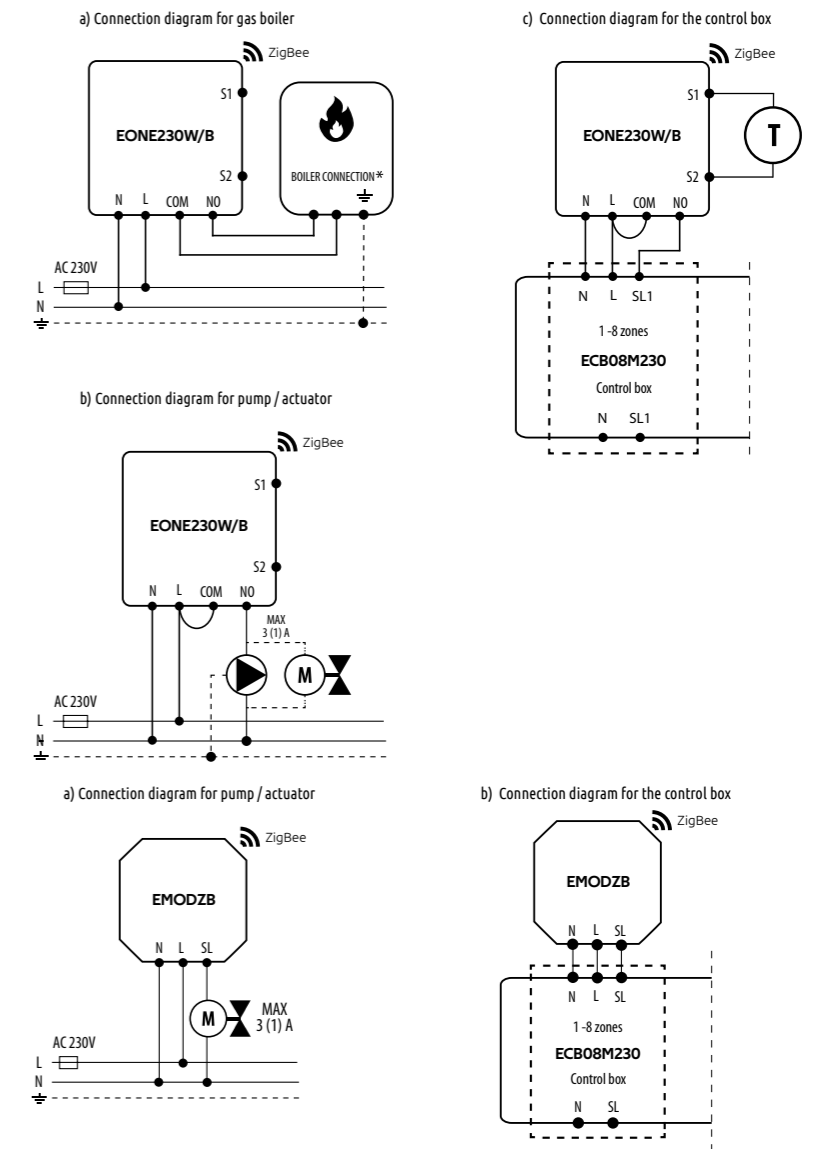
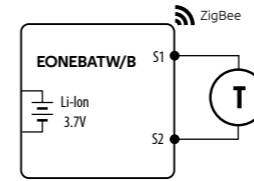
ERM12A

Power supply	230V AC 50Hz
Max current	12A
Inputs	NO/COM (voltage free)
Control output	SL 230V AC voltage output signal NO/COM/NC (voltage free)
Dimensions [mm]	48 x 48 x 20



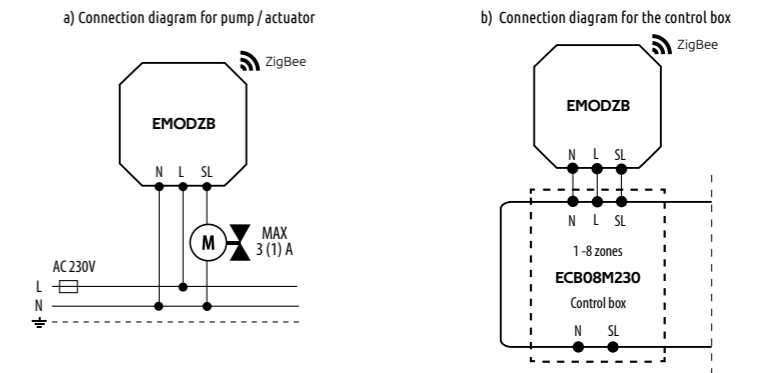
EONE230W / EONE230B EONEBATW / EONEBATB

Power supply	230V AC 50Hz
- Flush-mounted	Built-in 3.7V Li-Ion battery
- Surface-mounted	3 (1) A (230v version)
Max current	5 – 45°C
Temp. setpoint range	0.1°C or 0.5°C
Display temp. accuracy	TPI
Control algorithm	Hysteresis (±0.1°C do ±0.5°C)
Communication	ZigBee 3.0 2,4GHz
Input S1-S2	Floor or air temp sensor, hotel card
Control output	NO/COM voltage free (230v version)
Protection class	IP30
Dimensions [mm]	90 x 90 x 34 [mm] 90 x 90 x 14 [mm]



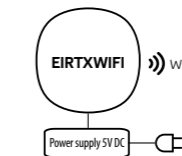
EMODZB

Power supply	230V AC 50Hz
Max current	3 (1) A
Communication	ZigBee 3.0 2,4GHz
Control output	230V AC
Dimensions [mm]	40 x 40 x 20



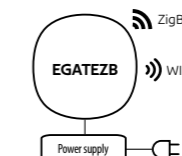
EIRTXWIFI

Power supply	5V DC mini USB
Max current	0.5A
Communication	WiFi 2,4 GHz
Dimensions [mm]	72 x 72 x 21



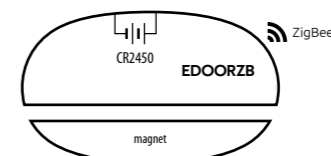
EGATEZB

Power supply	5V DC mini USB
Max current	0.5A
Communication	ZigBee 3.0 2,4GHz
Dimensions [mm]	72 x 72 x 21



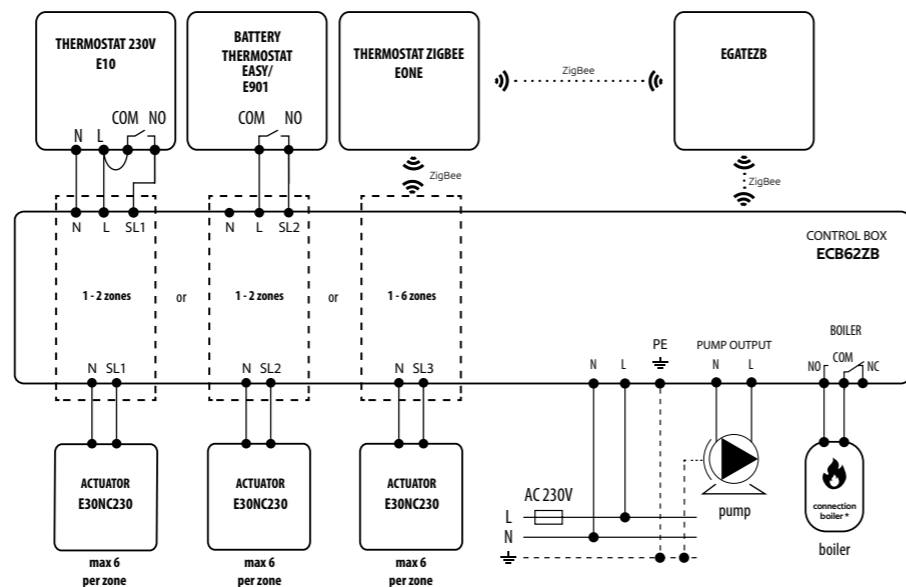
EDOORZB

Power supply	CR2450
Communication	ZigBee 3.0, 2.4GHz
Dimensions [mm]	72 x 42 x 16



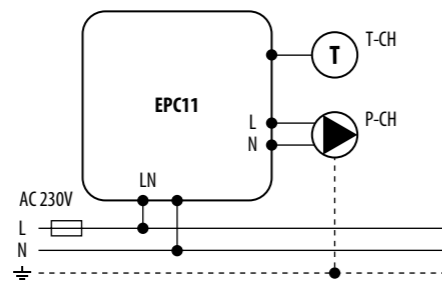
ECB62ZB

Power supply	230V AC 50Hz
Max current	10 (1) A
Communication	wired and wireless ZigBee 3.0
Input	2 wired zones
	6 ZigBee wireless zones
Outputs	Pump (230V)
	Boiler (NO/COM)
	Thermoelectric actuators (230V)
Dimensions [mm]	330 x 110 x 36



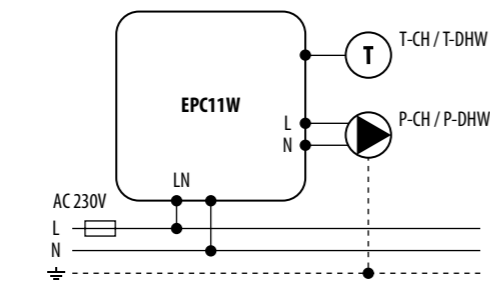
EPC11

Power supply	230V AC 50Hz
Max load of the pump output	3 (1) A
Temp. measurement range	0 - 99°C
Setpoint temp. range	5 - 80°C
Sensor temp. range	-10 - 120°C
Sensor cable length	1,5m
Dimensions [mm]	155 x 70 x 39



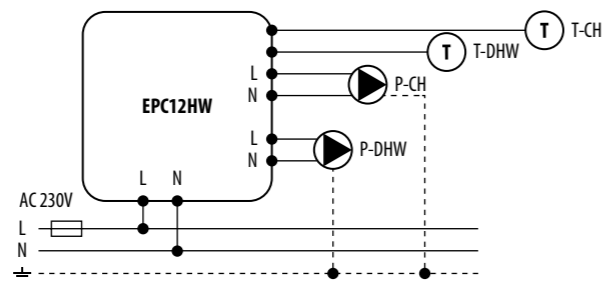
EPC11W

Power supply	230V AC 50Hz
Max load of the pump output	3 (1) A
Temp. measurement range	0 - 99°C
Adjustable temp. range (ON)	5 - 80°C
Adjustable temp. range (OFF)	10 - 85°C
Sensor temp. range	-10 - 120°C
Sensor cable length	1,5m
Dimensions [mm]	155 x 70 x 39



EPC12HW

Power supply	230V AC 50Hz
Max load of the CH pump output	3 (1) A
Max load of the DHW pump output	3 (1) A
Temp. measurement range	0 - 99°C
Setpoint temp. range for CH	5 - 80°C
Setpoint temp. range for DHW	5 - 80°C
Sensor temp. range	-10 - 120°C
CH sensor cable length	1,5m
DHW sensor cable length	3m
Dimensions [mm]	155 x 70 x 39

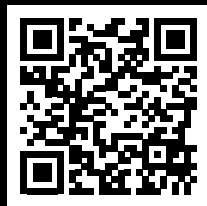


NOTICE

LEGEND

Battery powered	Ground (electricity)	Wireless communication
Fuse	Pump	Heating mode
L, N 230V AC power supply	Valve actuator	NC/COM/NO switch
COM, NO, NC Voltage-free output	Temperature sensor	Contact normally open NO
S1, S2 Input terminals	Thermoelectric actuator	Contact normally closed NC
SL → 230V AC voltage output	Boiler - Boiler connection * - Boiler's contacts for ON/OFF thermostat (according to the boiler's instructions)	

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Producer:

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