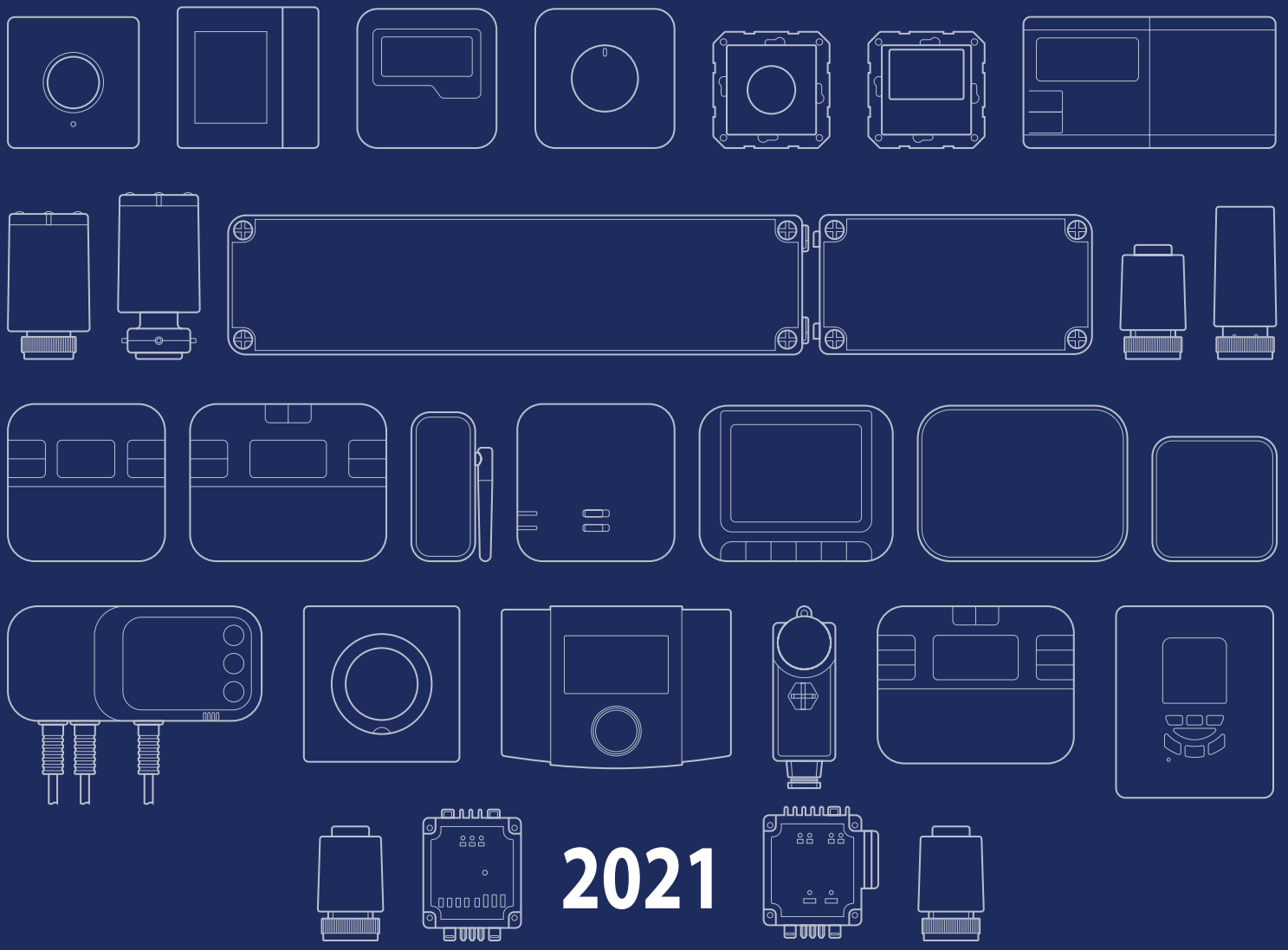
SALUS CONTROLS

# PRODUCT CATALOGUE



2021

## ICONS DESCRIPTION:

- 2xAA — 2 x AA alkaline batteries power supply
- 2xAAA — 2 x AAA alkaline batteries power supply
- 4xAAA — 4 x AAA alkaline batteries power supply
- CR2 — 1 x CR2 (3V) alkaline battery power supply
- CR3032 — 1 x CR3032 (3V) alkaline battery power supply
- N — New product in the offer
- CR123A — 1 x CR123 (3V) alkaline battery power supply
- 230 V — 230V AC 50Hz power supply
- 24 V — 24V AC 50Hz power supply
- 5V DC — 5V DC power supply
- Li-Ion — Li-Ion 3,7V battery power supply
- 5 YEAR WARRANTY — 5 years warranty
- ZIGBEE — ZigBee wireless communication
- 868MHz — 868MHz wireless communication
- Wired communication
- VOLT FREE — Voltage free contacts
- ONLINE OFFLINE — Work in ONLINE or OFFLINE mode

## SMART HOME SOLUTIONS


map of compatible products ..... 4 - 7

SMART HOME series ..... 8 - 18

**FC** series Fan coil thermostat ..... 19


## UNDERFLOOR HEATING
### WIRED SYSTEM


map of compatible products ..... 20 - 21

**EXPERT NSB** series ..... 22 - 23

**EXPERT HTR** series ..... 24 - 25

**EXPERT** series ..... 26 - 27

**THB** actuator ..... 28


## OTHER THERMOSTATS


**OPENTHERM** thermostats ..... 29

Internet thermostats for boilers ..... 30 - 31

**STANDARD** series ..... 32 - 39

**Programmable timers** ..... 40

**Weather controllers** ..... 41

**PC** series ..... 41 - 43


## ACCESSORIES


**PMV** valves ..... 44

**Magnetic filters** ..... 45

**Others** ..... 46 - 47

**Technical data and wiring diagrams** ..... 48 - 63

SALUS
Smart Home

# MAP OF COMPATIBLE PRODUCTS
# ONLINE MODE

GET IT ON Google Play

Download on the App Store

INTERNET

UGE600
p. 8

## Smart Home elements

PS600
p. 16

RS600 \ SR600
p. 15

SD600
p. 16



WLS600
p. 16

MS600
p. 17

SB600
p. 16



SW600
p. 15

SPE600
p. 15

## UNDERFLOOR heating

SQ610RF
p. 9

SQ610
p. 9

VS10WRF / VS10BRF
p. 10

VS20WRF / VS20BRF
p. 10

HTRP-RF(50)
p. 11

HTRS-RF(30)
p. 11

HTR-RF(20)
p. 11

TS600
p. 10

## RADIATOR heating

SQ610RF
p. 9

SQ610
p. 9

VS10WRF / VS10BRF
p. 10

VS20WRF / VS20BRF
p. 10

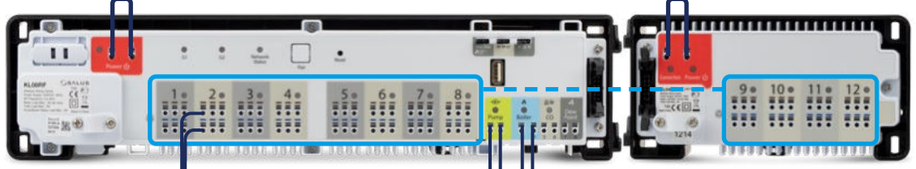
HTRP-RF(50)
p. 11

HTRS-RF(30)
p. 11

TS600
p. 10

230V AC power supply

230V AC power supply



KL08RF
p. 12

KL04RF
p. 12

Boiler **connection** wire **2 x 1 mm²** (additionally)

RX10RF
p. 14

Actuator **connection** wire
**2 x 0.75 mm²**

Pump **connection** wire
**2 x 1 mm²**

T30NC230
p. 13

THB23030
p. 13

PUMP (additionally)

BOILER

## TRV radiator heads

TRV10RFM
p. 14

TRV28RFM
p. 14

TRV10RAM
p. 14

## MAP OF COMPATIBLE PRODUCTS
# OFFLINE MODE

**C010RF**
p. 18

**OR**

**UGE600**
p. 8

### UNDERFLOOR heating

SQ610RF
p. 9

SQ610
p. 9

VS10WRF / VS10BRF
p. 10

VS20WRF / VS20BRF
p. 10

HTRP-RF(50)
p. 11

HTRS-RF(30)
p. 11

HTR-RF(20)
p. 11

### RADIATOR heating

SQ610RF
p. 9

SQ610
p. 9

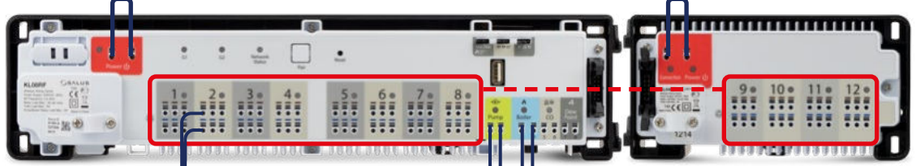
VS10WRF / VS10BRF
p. 10

VS20WRF / VS20BRF
p. 10

HTRP-RF(50)
p. 11

HTRS-RF(30)
p. 11

230V AC power supply



KL08RF
p. 12

230V AC power supply

KL04RF
p. 12

RX10RF
p. 14

Boiler **connection** wire **2 x 1 mm²** (additionally)

Actuator **connection** wire **2 x 0.75 mm²**

Pump **connection** wire **2 x 1 mm²**

T30NC230
p. 13

THB23030
p. 13

PUMP (additionally)

BOILER

### TRV radiator heads

TRV10RFM
p. 14

TRV28RFM
p. 14

TRV10RAM
p. 14

# SALUS Smart Home app

## creative control in your hands

- Temperature control for each separate room
- Simple control of SALUS Smart Home series devices
- Advanced thermostat functions
- OneTouch rules creating
- Notifications from the system (e-mail, SMS)
- **NO FEES** (for any subscriptions or licenses)

GET IT ON Google Play

Download on the App Store

The SALUS Smart Home app is completely free of charge.
It will allow you to control smart home devices with cooperation with UGE600 gateway. Thanks to them you can create rules via the Internet - from a mobile phone or computer (via a website).

An example of the rule creating can be found on page 18.

## Universal Gateway
## UGE600

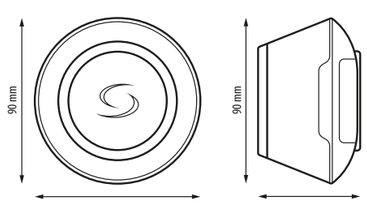
**615171220**

It's the heart of SALUS Smart Home system. It connects all SMART HOME devices in one fully integrated system, which works according to the rules (created by You).
In set: LAN cord and power supply adapter.

**Product advantages:**
- using the SALUS Smart Home application, it enables wireless control of compatible devices
- it is recommended to use up to 100 devices per one gateway
- easy and quick to install
- you can connect it via Wi-Fi or a LAN cord

The gateway has a built-in ZigBee network coordinator.
Use it instead of the CO10RF coordinator.

| | |
|---|---|
| Power supply | 5V DC |
| Port | 1x10/100 LAN port |
| Mounting | Table or wall mounted |
| RF Frequency | ZigBee 2.4 GHz HA 1.2 |
| Dimension | H=55.5 Ø=90 |





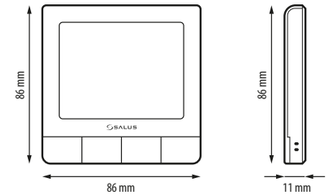

## Quantum thermostat
## SQ610RF

**615302602**

Surface-mounted, multi-functional thermostat with humidity sensor and built-in Li-Ion battery. It is used for wireless control of devices from the SALUS Smart Home series.

**Product advantages:**
- you can create your own temperature schedules
- it has a built-in humidity sensor
- you can choose desired control algorithms: ITLC, Hysteresis ± 0.5 °C or ± 0.25 °C, THB actuator
- thermostat has comfort WARM FLOOR function
- you can lock thermostat's buttons by the PIN and set limits for the set temperature
- it has a multi-functional input: temperature sensor (floor or air), occupancy sensor, OneTouch rules
- quick and easy to install at every stage of the investment
- mounted with screws with dowels or mounting tape (included in set)

| | |
|---|---|
| Power supply | Built-in Li-Ion 3,7V Battery |
| Temperature range | 5 - 40°C |
| Display temperature accuracy | 0.5°C or 0.1°C |
| Control algorithms | ITLC, Hysteresis: ±0.25°C / ± 0.5°C, THB |
| Communication | Wireless, ZigBee 2.4 GHz |
| S1/S2 multifunctional input: | Floor temperature sensor<br>External air sensor<br>Occupancy sensor<br>One Touch rule trigger<br>Heating/Cooling modes changeover |
| Working temperature | 0 - 45°C |
| IP protection class | IP30 |
| Dimension [mm] | 86 x 86 x 11 |




## Quantum thermostat 230V
## SQ610

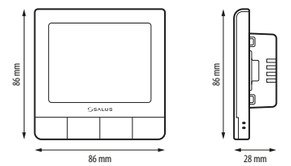
**615302601**

Flush-mounted, multi-functional thermostat with humidity sensor. A unique feature of this thermostat is the possibility of WIRELESS control of SALUS Smart Home series devices and WIRED control of devices that connect directly to it (e.g. wiring centre, boiler).

**Control:**
- Online:
  - wirelessly - using the SALUS Smart Home application and the UGE600 universal gateway
  - wired when the thermostat is directly connected to the receiver (e.g. wiring centre) and when the SALUS Smart Home application with the UGE600 gateway is used
- Offline (without internet connection) - with the C010RF coordinator use.
- Wired (without UGE600 internet gateway and without C010RF coordinator), when the controller is directly connected to the (for e.g.) wired wiring centre

**Product advantages:**
- you can create your own temperature schedules
- it has a built-in humidity sensor,
- you can choose desired control algorithms: ITLC, Hysteresis ± 0.5 °C or ± 0.25 °C, THB actuator
- valve protection
- thermostat has comfort WARM FLOOR function
- you can lock thermostat's buttons by the PIN and set limits for the set temperature
- it has a multi-functional input: temperature sensor (floor or air), occupancy sensor, OneTouch rules
- mounting in a wall-box φ60
- works as a repeater, increasing the range of the ZigBee network

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Max curren | 3 (1) A |
| Temperature range | 5 - 40°C |
| Display temperature accuracy | 0.5°C or 0.1°C |
| Control algorithms | ITLC, Hysteresis: ±0.25°C / ±0.5°C, THB |
| Communication | Wireless, ZigBee 2.4 GHz |
| S1/S2 multifunctional input: | Floor temperature sensor<br>External air sensor<br>Occupancy sensor<br>One Touch rule trigger<br>Heating/Cooling modes changeover |
| Output control | COM / NO (volt-free) |
| Working temperature | 0 - 45°C |
| IP protection class | IP30 |
| Dimension [mm] | 86 x 86 x 28 |
| Thickness after mounting in a wall-box φ60 [mm] | 10 |




## Charging station for SQ610RF and WQ610RF thermostats
## CDEU

**615301030**

This device is used to charge buil-in Li-Ion batteries of the SQ610RF and WQ610RF wireless temperature thermostats (sold separately) via the USB port.

**Included:**

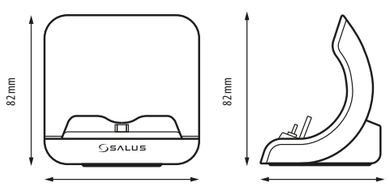
- charging station
- power supply 230V / 5VDC
- USB - micro USB cable (1.5 m, white color)

NOTE: the station only supports the specified thermostats models.

**Product features:**

- first fully charge for SQ610RF or WQ610RF takes up to 24h
- the product is handy and easy to use
- docking station can be used also as a elegant stand with minimalistic design

| | |
|---|---|
| Power supply | 5VDC (micro USB) |
| Max. load | 1A |
| Dimensions [mm] | 82 x 82 x 66 |



# Wireless digital thermostat 230V
## VS10WRF / VS10BRF

**615172642 / 615172640**

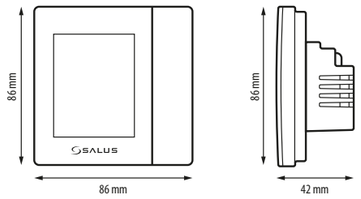
Two colours version: black and white

Flush-mounted thermostat for wireless control of devices from the SALUS Smart Home series, such as:
KL08RF wiring centre, TRV radiator head and RX10RF receiver.

**Control:**
- Online - using the SALUS Smart Home application and the UGE600 universal gateway
- Offline (without internet connection) - with the CO10RF coordinator use. In offline mode it can also work as a weekly or daily thermostat or as a hot water timer (with RX10RF module).

**Product advantages:**
- cooperates with the other elements of the SALUS Smart Home series
- it has a TPI algorithm - a guarantee of precise temperature maintenance
- you can create your own temperature schedules
- it has an input for an additional temperature sensor (floor or air) or occupancy sensor
- mounting in a wall-box φ60

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | ZigBee 2.4 GHz |
| Dimesions [mm] | 86 x 86 x 42 |
| Thickness after mounting in a wall-box φ60 [mm] | 16.5 |




# Wireless digital thermostat
## VS20WRF / VS20BRF

**615172645 / 615172644**

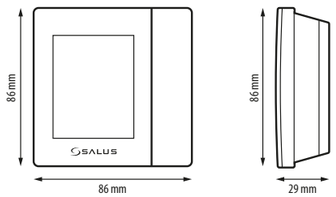
Two colours version: black and white

Surface-mounted thermostat for wireless control of devices from the SALUS Smart Home series, such as:
KL08RF wiring centre, TRV radiator head and RX10RF receiver.

**Control:**
- Online - using the SALUS Smart Home application and the UGE600 universal gateway
- Offline (without internet connection) - with the CO10RF coordinator use. In offline mode it can also work as a weekly or daily thermostat or as a hot water timer (with RX10RF module).

**Product advantages:**
- cooperates with the other elements of the SALUS Smart Home series
- it has a TPI algorithm - a guarantee of precise temperature maintenance
- you can create your own temperature schedules
- it has an input for an additional temperature sensor (floor or air) or occupancy sensor
- you can connect it at any stage of the investment
- cooperation with the Amazon ALEXA system

| | |
|---|---|
| Power supply | 4 x AAA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 86 x 86 x 29 |



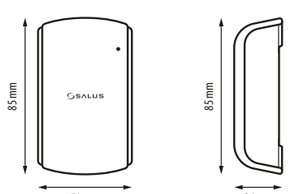

# Temperature sensor
## TS600

**615171349**

It is a surface-mounted sensor and a thermostat for wireless control of SALUS Smart Home devices. Installation and configuration are carried out using the SALUS Smart Home application, the UGE600 universal gateway is also required for operation. In Online mode it can communicate with devices such as: KL08RF wiring centre, mini TRV radiator head, RX10RF receiver, SR600 smart relay and SPE600 smart plug.

**Product advantages:**
- has an input for an additional sensor (floor or air temperature)
- intuitive configuration of parameters in the application
- work according to schedules created in the application

| | |
|---|---|
| Power supply | 2 x AA baterries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C (only in the app) |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 51 x 85 x 26 |






# Wireless digital thermostat
## HTRP-RF(50)

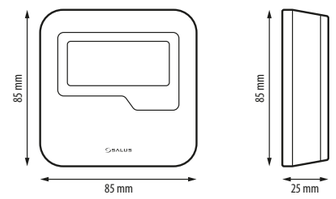
**615122626**

Surface-mounted thermostat for wireless control of devices from the SALUS Smart Home series, such as:
KL08RF wiring centre, TRV radiator head and RX10RF receiver.

**Control:**
- Online - using the SALUS Smart Home application and the UGE600 universal gateway
- Offline (without internet connection) - with the CO10RF coordinator use. In offline mode it works as a weekly thermostat.

**Product advantages:**
- cooperates with the other elements of the SALUS Smart Home series
- it has a TPI algorithm - a guarantee of precise temperature maintenance
- you can create your own temperature schedules
- it has an input for an additional temperature sensor (floor or air)
- you can connect it at any stage of the investment

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 85 x 85 x 25 |




# Wireless digital thermostat
## HTRS-RF(30)

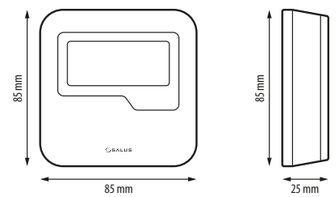
**615122625**

Surface-mounted thermostat for wireless control of devices from the SALUS Smart Home series, such as:
KL08RF wiring centre, TRV radiator head and RX10RF receiver.

**Control:**
- Online - using the SALUS Smart Home application and the UGE600 universal gateway
- Offline (without internet connection) - with the CO10RF coordinator use. In offline mode it works as a daily thermostat.

**Product advantages:**
- cooperates with the other elements of the SALUS Smart Home series
- it has a TPI algorithm - a guarantee of precise temperature maintenance
- you can create your own temperature schedules
- it has an input for an additional temperature sensor (floor or air)
- you can connect it at any stage of the investment

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 85 x 85 x 25 |




# Wireless digital thermostat
## HTR-RF(20)

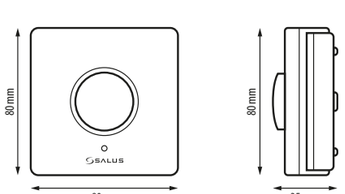
**615122624**

Surface-mounted room thermostat. The wireless control of heating only with the KL08RF wiring centre.

**Control:**
- Online - using the SALUS Smart Home application and the UGE600 universal gateway
- Offline (without internet connection) - with the CO10RF coordinator use. In offline mode it works as a daily thermostat.

**Product advantages:**
- cooperates with the other elements of the SALUS Smart Home series
- it has a TPI algorithm - a guarantee of precise temperature maintenance
- you can create your own schedules in the app
- you can connect it at any stage of the investment

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 32.5°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 80 x 80 x 35 |



# Wiring centre, for 8 zones
## KL08RF*

**615171432**

The wiring centre works in a wireless connection with thermostats of the SALUS Smart Home series.
It has built-in pump and boiler control outputs - works with NC or NO actuators.

You can connect 9 KL08RF wiring centres in one ZigBee network (Online or Offline).

*Available in 24V version - **KL08RF 24V**
615171433

**Control:**
- Online - using the SALUS Smart Home application and the UGE600 universal gateway
- Offline - with the CO10RF coordinator use (in set with the wiring centre)

**Product advantages:**
- control of 8 independent heating zones
- 24 outputs for connecting the actuators (3 per zone)
- works only with SALUS Smart Home series thermostats
- adaptation for mounting on a 35 mm DIN rail

| Model | KL08RF | KL08RF24V |
|---|---|---|
| Power supply | 230V AC 50 Hz | 230V AC 50 Hz |
| Rating max | 3 A | 2 A |
| Inputs | Heating/cooling changeover<br>Dew point | |
| Outputs | Pump (NO/COM)<br>Boiler (NO/COM) | |
| Actuator outputs | 230V | 24V |
| Communication | ZigBee 2.4 GHz | |
| Dimension [mm] | 355 x 85 x 67 | |

# Wiring centre extension for KL08RF
## KL04RF

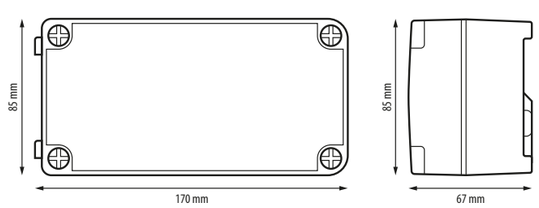
**615171430**

*Available in 24V version - **KL04RF 24V**
615171431

The KL04RF module is an extension to the KL08RF wiring centre by another 4 zones. It works only in connection with the KL08RF wiring centre - extends number of controlled zones up to 12.

**Product advantages:**
- adaptation for mounting on a 35 mm DIN rail
- works only with KL08RF wiring centre

| Power supply | 230V AC 50 Hz |
|---|---|
| Dimension [mm] | 170 x 85 x 67 |



# Thermal actuator - normally closed NC
## T30NC / T28NC*

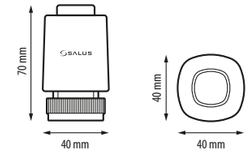
T30NC 230V - **615211603** / T28NC - **615211500**

*Available in 24V version - **T30NC 24V**
615211606

Actuators can be used e.g. with thermostatic valves in the manifold for underfloor heating or with zone valves. They allow cutting off the heating medium supply to a given element. They can cooperate directly with room thermostats or via wiring centres (wired or wireless).
NC actuators are normally closed devices, which means that when there is no current, the actuator closes the loop. The condition of the actuator can be checked quickly thanks to the indicating element.

**Product advantages:**
- faster installation thanks to the 'FIRST OPEN' function
- short opening time - about 2 min
- it has adaptive stroke length - about 4 mm
- it has small size
- consumes a small amount of power

| Model | T30NC230 / T28NC230 | T30NC24 |
|---|---|---|
| Power supply | 230V AC 50 Hz / | 24V AC/DC |
| Max. inrush current | 200 mA / 200 ms | 250 mA / 120 s |
| Power consumption | 2 W | |
| Type | NC = Normally closed | |
| Closing force | 100 N (±10%) | |
| Opening time | about 2 min | |
| Adaptive stroke length [mm] | 4 | |
| Thread's size | M30x1.5 / M28x1.5 | |
| Dimension [mm] | 40 x 70 x 40 | |
| Power cord length [cm] | 89 | |




# Thermal actuator - normally opened NO
## T30NO

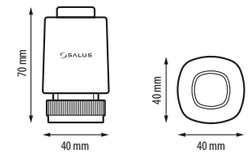
T30NO 230V - **615211608**

*Available in 24V version - **T30NO 24V**
615211609

Actuators can be used e.g. with thermostatic valves in the manifold for underfloor heating or with zone valves. They allow cutting off the heating medium supply to a given element. They can cooperate directly with room thermostats or via wiring centres (wired or wireless).
NO type actuators are normally open devices, which means that when there is no current, the actuator opens the loop. The condition of the actuator can be checked quickly thanks to the indicating element.

**Product advantages:**
- short opening time - about 2 min
- it has adaptive stroke length - about 4 mm
- it has small size
- consumes a small amount of power

| Model | T30NO230 | T30NO24 |
|---|---|---|
| Power supply | 230V AC 50 Hz / | 24V AC/DC |
| Max. inrush current | 200 mA / 200 ms | 250 mA / 120 s |
| Power consumption | 2 W | |
| Type | NO = Normally opened | |
| Closing force | 100 N (±10%) | |
| Opening time | about 2 min | |
| Adaptive stroke length [mm] | 4 | |
| Thread's size | M30x1.5 / M28x1.5 | |
| Dimension [mm] | 40 x 70 x 40 | |
| Power cord length [cm] | 89 | |




# Auto balancing actuator
## THB23030

**615210214**

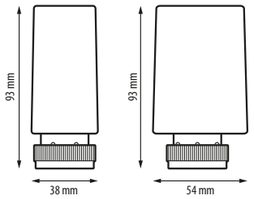
*Available in 24V version - **THB2430**
615210215

Self-regulating actuator dedicated for underfloor heating. It has two temperature sensors that are installed on the supply and return of the appropriate floor heating loop.
It measures the temperature on the sensors and adjusts its operation to maintain the correct temperature difference between supply and return (ΔT).

**Product advantages:**
- easy to install on the manifold
- guarantees efficient heating even at different loop lengths
- has 2 contact sensors for measuring the flow and return temperature in the heating loop
- short opening time (about 30 seconds)
- consumes a small amount of power (less than 0,5 W)

Fits the most popular M30x1.5 thread size.

| Model | THB23030 | THB2430 |
|---|---|---|
| Power supply | 230V AC 50 Hz | 24V AC/DC |
| Power consumption | 0,5 W | |
| Opening time | 30 seconds | |
| Protection class | IP54 | |
| Thread's size | M30 x 1.5 | |
| Dimension [mm] | 93 x 38 x 54 | |
| Power cord length [cm] | 93 | |
| Sensor cord length [cm] | 45 | |



# Thermostatics radiator valve (TRV)

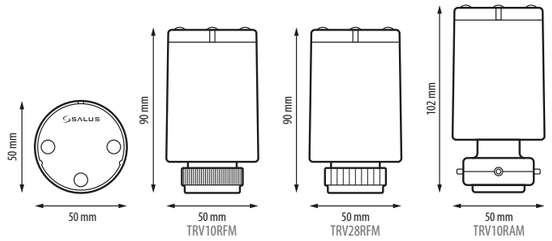
## TRV10RFM / TRV28RFM / TRV10RAM

**615170712 / 615170713 / 615170710**

The electronic thermostatic head is used to control the radiator heating. An excellent replacement for a traditional manual thermostatic head. For proper operation of the TRV head, it is necessary to synchronize it with a wireless thermostat using the C010RF coordinator or the UGE600 universal gateway (sold separately). The head paired with SALUS Smart Home series thermostats provides a feeling of warmth and comfort throughout the entire room, not just the radiator.
Up to 6 heads can be paired with one thermostat in one room.

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Communication | ZigBee 2.4 GHz |
| Thread size | 10RFM - M30 x 1.5<br>28RFM - M28 x 1.5<br>10RAM - Danfoss RA |
| Dimension [mm] | 10RFM - 50 x 90 x 50<br>28RFM - 50 x 90 x 50<br>10RAM - 50 x 102 x 50 |

**Product advantages:**
- auto-fitting to the valve insert
- key lock (ideal when you have children)
- antifreeze protection




# Tamper-proof housing for TRV heads

## TP10 / TP28-30

**615171382 / 615171381**

TP10

TP28-30

Solid shields protecting TRV heads against theft or unnecessary manipulation. Ideal for use in public buildings (e.g. schools, hospitals). The TP10 model is designed for the TRV10RAM head - in set with mounting screws and ABS plastic housing.
Model TP28-30 is designed for TRV10RFM and TRV28RFM heads - in set with mounting screws, allen key and metal clamps.

**Product advantages:**
- fast and easy mounting
- theft protection

TP10

TP28-30

Examples of use

# Heat source control module - receiver

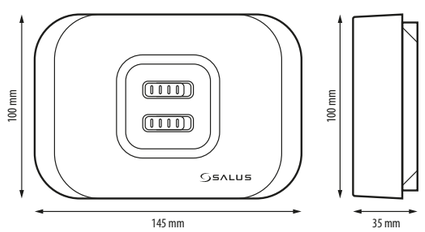
## RX10RF

**615171354**

The module is the executive element in the SALUS Smart Home system and is started on the basis of a heating signal from thermostats from the same network. It can replace the wired connection between KL08RF wiring centre and the boiler. In a system with heads, TRV is an optional element that activates the heat source.
For RX10RF to work with SALUS Smart Home wireless thermostats, it must be used together with the C010RF coordinator (Offline) or the UGE600 universal gateway (Online) and the SALUS Smart Home application.

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output | NO/COM |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 145 x 100 x 35 |

**The module can work as a receiver:**
- groups of thermostats (RX1 mode) - reacts to the command to heat any thermostat in the ZigBee network (heat source control)
- one thermostat (RX2 mode) - reacts to the command to heat only one thermostat in the ZigBee network (controlling one zone or hot water timer in combination with thermostats VS10..RF / VS20..RF)






# Smart Plug

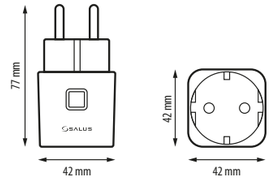
## SPE600

**615171350**

The intelligent plug is connected directly to the electric socket (as an extension) - it gives the possibility to control the device plugged into it. It should be used together with the UGE600 universal gateway and the SALUS Smart Home application.

**Product advantages:**
- Amazon ALEXA voice control
- overload protection
- works as a repeater for ZigBee network
- measures the power consumption of connected devices
- has a programmable schedule in the application SALUS Smart Home
- history of energy consumption (as a chart in the Smart Home application)

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 A |
| Plug and Socket type | EU Schuko |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 42 x 77 x 42 |




# Smart Relay / Roller shutter

## SR600 / RS600

**615171351 / 615173700**

SR600
RS600

**Smart Relay SR600** is a remote-controlled device, designed to work in a switch box, wall socket or where there is a need to control a receiver with a maximum load of 16A. It should be used together with the UGE600 universal gateway and the SALUS Smart Home application.

**Product advantages:**
- remote relay for voltage devices (boilers, pumps, valves, actuators, lighting and other 230V devices)
- remote relay for voltage free devices
- (alarm control panels, gate controllers, opening sensors and others)
- works as a repeater for ZigBee network
- can be used as a "smart input" to the system (you can activate OneTouch rules)
- has a programmable schedule in the application SALUS Smart Home

**Roller shutter RS600** controls drives of window blinds, curtains or lighting with a maximum load of 5A. The device is factory prepared for controlling 230V AC drives. Special operating modes can be programmed in the RS600 using the SALUS Smart Home application, in which case it must be connected to the UGE600 universal gateway. It can work with various types of switches.

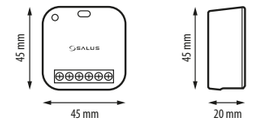
**Product advantages:**
- controls roller shutter drives - closing roller blinds throughout the house (One Touch rule)
- controls lighting - works with different types of switches
- flush mounting or in SRS600 housing possible
- works as a repeater for ZigBee network housingage

**SR600**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output | NO/COM |
| Inputs | S1, S2 |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 45 x 45 x 20 |

**RS600**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 5 (2) A |
| S1, S2 inputs | 230V AC 50 Hz |
| SL1, SL2 outputs | 230V AC 50 Hz |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 45 x 45 x 20 |




# Window/door sensors (slim and standard)

## SW600 / OS600

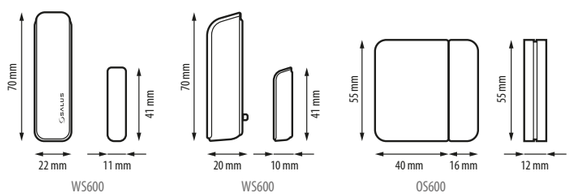
**615171384 / 615171357**

SW600
OS600

The wireless sensor is used to signal the opening of windows / doors. It should be used together with the UGE600 universal gateway and the SALUS Smart Home application. In combination with thermostats, it automatically switches the heating off for ventilation time.

**Product advantages:**
- free status change notifications (SMS, @)
- history of open/close states in the SALUS Smart Home application

| | |
|---|---|
| SW600 power supply | 1 x CR2 |
| OS600 power supply | 1 x CR3032 |
| Max. Magnet Gap (distance) | 25 mm |
| Communication | ZigBee 2.4 GHz |
| SW600 Dimension [mm] | Sensor: 22 x 70 x 20<br>Magnet: 11 x 41 x 10 |
| OS600 Dimension [mm] | Sensor: 55 x 40 x 12<br>Magnet: 55 x 16 x 12 |

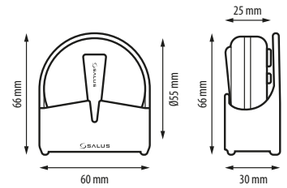


# Water leak sensor
## WLS600
**615170401**

The sensor is used to detect the presence of water on the surface under the sensor or on the contacts of wires connected to the sensor. Depending on the needs, it can be placed horizontally or vertically. The wires are attached to the sensor through a handle. WLS600 must be used with the UGE600 universal gateway and the SALUS Smart Home application.

**Product advantages:**
- by connecting to the application, it gives you the opportunity to receive free notification of leakage and / or flooding (SMS, e-mail)
- is completely waterproof
- has various mounting options (accessories included)
- works according to OneTouch rules (e.g. close the valve when you detect a water leak)

| | |
|---|---|
| Power supply | 1 x CR2 |
| Communication | ZigBee 2.4 GHz |
| External sensor length | 2 m |
| Sensor Dimension [mm] | H=25, Ø=55 |
| Case Dimension [mm] | 60 x 66 x 30 |

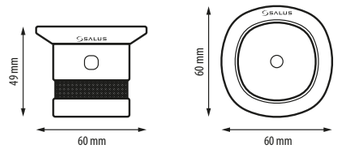



# Smoke detector
## SD600
**615170402**

The sensor detects the presence of smoke in real time. It can be used as a stand-alone device (without the UGE600).

**Product advantages:**
- alerts when a threat is detected (audible and visual alarm)
- synchronized with the UGE600 gateway and the SALUS Smart Home application, it gives the possibility to notify about the event (SMS and e-mail)
- functional warning system (to be used e.g. in hotels, warehouses)

| | |
|---|---|
| Power supply | 1 x CR123A |
| Communication | ZigBee 2.4 GHz |
| Sound level | ≥ 85dB |
| Working temperature | -10 - 50°C |
| Humidity | ≤ 95% |
| Dimension [mm] | 60 x 60 x 49 |

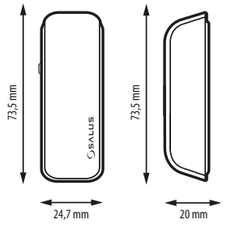



# Wireless temperature sensor
## PS600
**615171387**

The PS600 temperature sensor - in relation to the measured temperature - allows to control products connected to the SPE600 smart plugs or SR600 smart relays e.g. pumps, valves, actuators etc. The large measuring range of the sensor is an important feature and offers a wide range of applications for heating, cooling, temperature monitoring and OneTouch events/rules trigger within the system. The sensor requires the UGE600 internet gateway and SALUS Smart Home application.

**Product advantages:**
- sensor probe is designed to be mounted on a 15-18mm pipe
- removable sensor buckle allows you to place it e.g. in a electrical conduit
- works according to the OneTouch rules (e.g. switch off the pump, when temperature drops below 25°C)

| | |
|---|---|
| Power supply | 1 x CR2 |
| Wireless communication | ZigBee 2.4 GHz |
| Measuring range | -50°C - 100°C |
| Cable length | 470 mm |
| Dimensions [mm] | 73.5 x 24.7 x 20 |



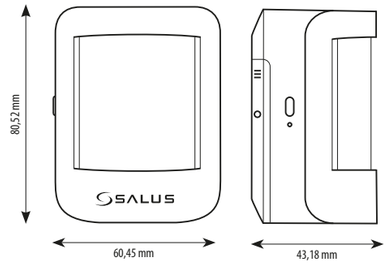



# Motion sensor
## MS600
**615171386**

MS600 is a motion detector. The sensor requires the UGE600 internet gateway and SALUS Smart Home application. Through the application we can remotely monitor motion in the room and receive SMS/email notifications. Thanks to the OneTouch rules and devices such as SPE600 or SR600, the motion sensor can switch ON/OFF any electrical device, e.g. switching on light after detection of movement on stairs.

**Product advantages:**
- up to 3 years of sensor operation on one battery
- It supports the pet immunity function (up to 36 kg)
- OneTouch rules operation (e.g. when motion is detected after sunset, activate lighting for a certain period of time)

| | |
|---|---|
| Power supply | 1 x CR123A |
| Communication | ZigBee 2.4 GHz |
| Detection distance | 8 meters |
| Detection angle | 80° |
| Dimensions [mm] | 60.45 x 80.52 x 43.18 |



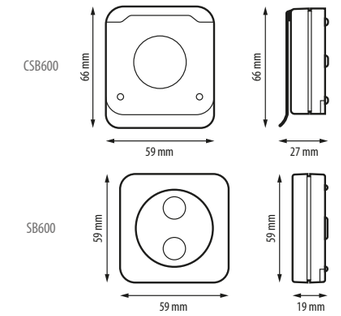

# Button - activator for OneTouch rules (single / double)
## CSB600 / SB600
**615171359 / 615171353**

The wireless button is used to run OneTouch rules in the SALUS Smart Home system. For its operation, the UGE600 universal gateway and the SALUS Smart Home application are required. It has the option of receiving a free notification of the event (SMS, e-mail).

**CSB600 product advantages:**
- has the ability to work as an emergency button - sending an SMS notification
- it can be the switch of one event (OneTouch rules) - e.g. turn off heating, start the schedule, turn on the light for a specific time
- activation of one OneTouch rule without running the SALUS Smart Home application

**SB600 product advantages:**
- can be a trigger for two events (OneTouch rules)
- activation of 2 different OneTouch rules without running the SALUS Smart Home application
- has the ability to work as a lighting switch and switch

| | |
|---|---|
| Power supply | 2 x AAA batteries |
| Communication | ZigBee 2.4 GHz |
| CSB600 Dimension [mm] | 59 x 66 x 27 |
| SB600 Dimension [mm] | 59 x 59 x 19 |




# ZigBee network repeater
## RE600 / RE10RF
**615171355 / 615171356**

Repeater increases the ZigBee network signal range for SALUS Smart Home devices. The device is helpful in installations where distances or obstacles (e.g. thick walls, metal elements) can impair wireless connectivity.

**RE600 can be used:**
- Online - using the SALUS Smart Home application and the UGE600 universal gateway

**RE10RF can be used:**
- Online - using the SALUS Smart Home application and the UGE600 universal gateway
- Offline - with CO10RF coordinator

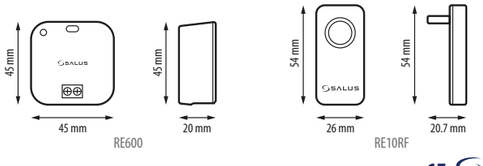
**Product advantages:**
- increases the range of the ZigBee network
- recommended for a large number of battery devices in the network
- The RE600 can be mounted in a subtle housing (included), optionally in a φ 60 box
- RE10RF has a power supply adapter included

**RE600**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 45 x 45 x 20 |

**RE10RF**

| | |
|---|---|
| Power supply | 5V DC |
| Dimension [mm] | 54 x 26 x 20.7 |



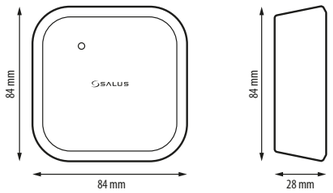
## An elegant housing for mounting SR600 / RS600 / RE600

# SRS600

**615171383**

It allows mounting SR600, RS600 or RE600 products on a wall or ceiling. The handle also works as a housing.

**Product advantages:**
- device protection against external damage
- cords protection against pulling out



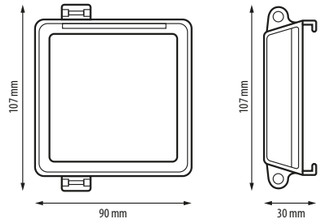

## Tamper-proof housing for VS20WRF/VS20BRF thermostat

# VSTC

**615171380**

Protective housing against theft or unnecessary tampering with the VS20WRF / VS20BRF battery thermostat.

**Product advantages:**
- made of plastic




## External antenna for KL08RF wiring centre

# 08RFA

**615171361**

**Product advantages:**
- increases the range of the communication signal
- enables quick assembly with a built-in magnet
- simple and easy to install

| | |
|---|---|
| Dimension [mm] | H=131 Ø=29 |
| Cord length [cm] | 100 |
| Mounting | magnetic |
| Plug | SMA-K |



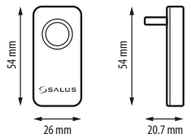

## ZigBee network coordinator

# C010RF

**615171360**

C010RF coordinates the work of wireless heating devices in offline mode. Necessary to create a ZigBee network. Provides wireless control of all devices. One C010RF can support up to 30 thermostats, 9 wiring centres and 90 radiator heads. If there are more than 32 battery-powered devices in the network (e.g. thermostats, thermostatic heads) or the distances between devices cause connectivity problems, the system should be equipped with an additional RE10RF repeater.

| | |
|---|---|
| Power supply | 5V DC |
| Dimension [mm] | 54 x 26 x 20.7 |




## Fan coil thermostat

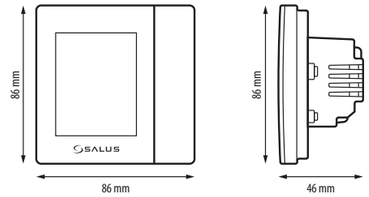
# FC600

**615170500**

Multifunctional device designed to control 2 or 4-pipe fan coils, trench heaters or water heaters, which have a built-in fan. The thermostat controls the fan and valves to maintain the set temperature in the room.

**Product advantages:**
- factory configured as daily, with the possibility of work as a weekly
- it can be controlled locally or via the Internet (using the SALUS Smart Home application and the UGE600 gateway)
- has settings memory in case of power loss
- works according to a previous set hysteresis or energy-saving TPI control algorithm
- Amazon ALEXA voice control (temperature control)
- work as a repeater increasing the range of the ZigBee network
- mounting in a φ 60 mm wall box

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 5 (2) A |
| Control outputs:<br>- Fan Speed control (I, II, III gear)<br>- Valve actuator (cooling/heating) | 230 V AC 50 Hz |
| Temperature range | 5 - 40°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 86 x 86 x 46 |
| Thickness after mounting in wall box φ 60 [mm] | 16.5 |




## The module is designed for fans with an EC motor

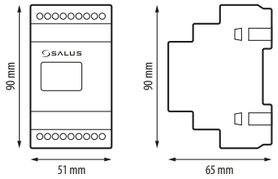
# FC600-M 0-10V

**515251830**

Module for fan coils, trench heaters or heaters with fans controlled by 0-10V signal. It complements the main controller SALUS FC600. The module smoothly controls the fan speed by setting the control voltage in the range of 0 ... 10V. The device controls two electric actuators (heating and cooling valve).

**Product advantages:**
- controls fans with EC motor
- converting the valves signal from 230V to 24V DC
- silent operation of the controlled device (thanks to smooth adjustment between fan speeds)
- has control inputs adapted for FC600 thermostat

| | |
|---|---|
| Power supply | 24V DC |
| Inputs:<br>- F1, F2, F3: Low/Medium/High fan speeds<br>- V1, V2: Valve inputs (heating and cooling) | 230V AC |
| Outputs:<br>- Fan power supply<br>- Fan control<br>- Valve outputs (heating and cooling) | <br>24V DC; 6.5 A<br>0...10V<br>24V DC; 1 A |
| Mounting | DIN rail 35 mm |
| Dimension [mm] | 51 x 90 x 65 |




# OneTouch rules

They give you the freedom to create scenarios. Intuitive commands in the application make it easy to create the perfect day. Know our system in practice. Look at some ready-made solutions and get inspired to create your own.

### Morning 07:00

A nice morning will put you in a good mood for all day.

- Set the temperature that best stimulates you to actions.
- Gradually open the blinds and let the light into your home.
- Activate garden sprinkling.
- Take care of hot water. Turn on the hot water timer.

### Out of home 08:30

A button that activates everything with a single click.

- Turn off lighting throughout the house.
- Close the shutters according to your preferences
- Save energy and turn off the hot water pump.

### Back at home 17:00

Prepare your home for your return: automatically when you deactivate the alarm or sooner - from the SALUS Smart Home application.

- Raise the temperature and turn on the hot water pumps.
- Enjoy the perfect temperature and hot water after returning.
- Raise the blinds.

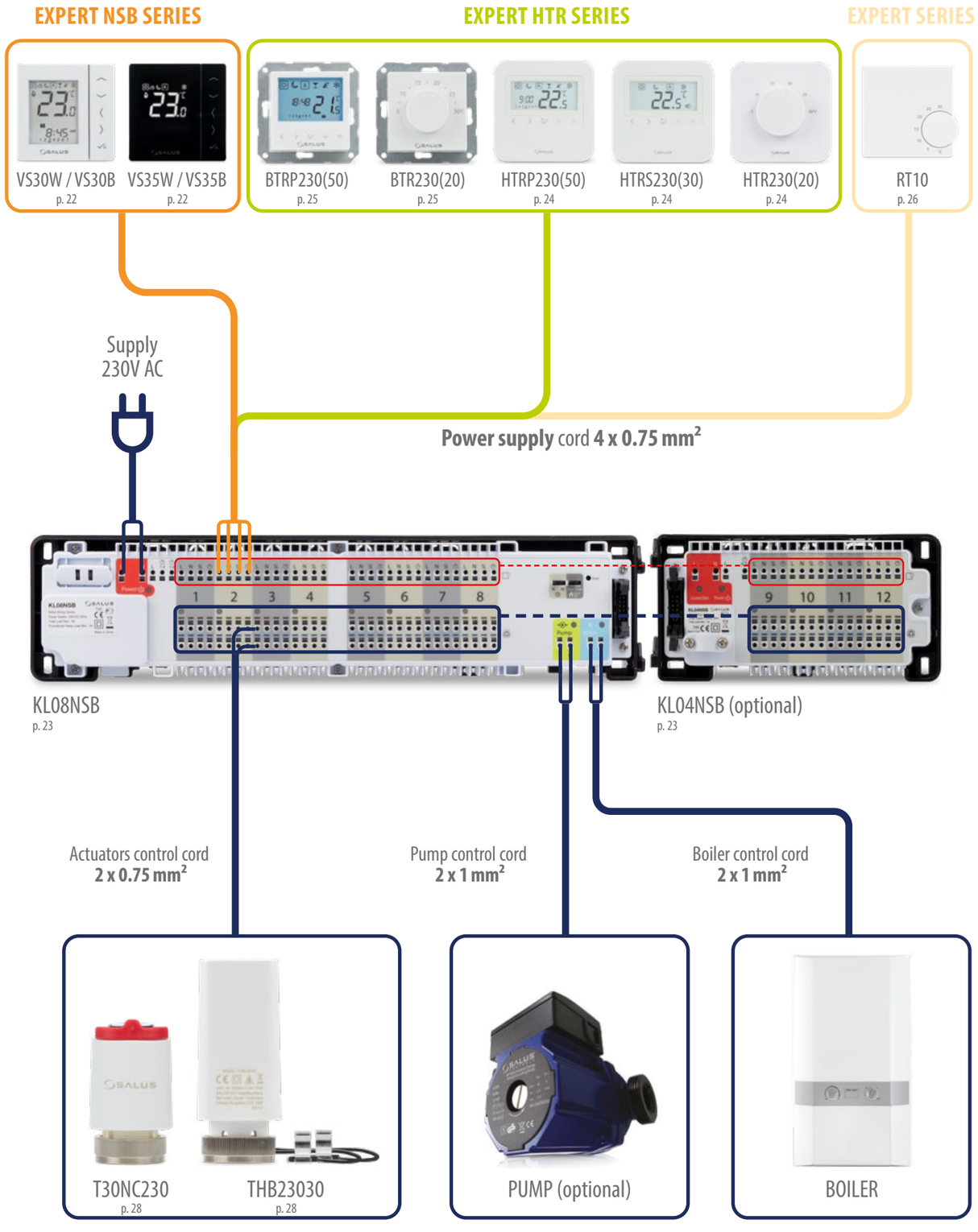
### Evening 22:00

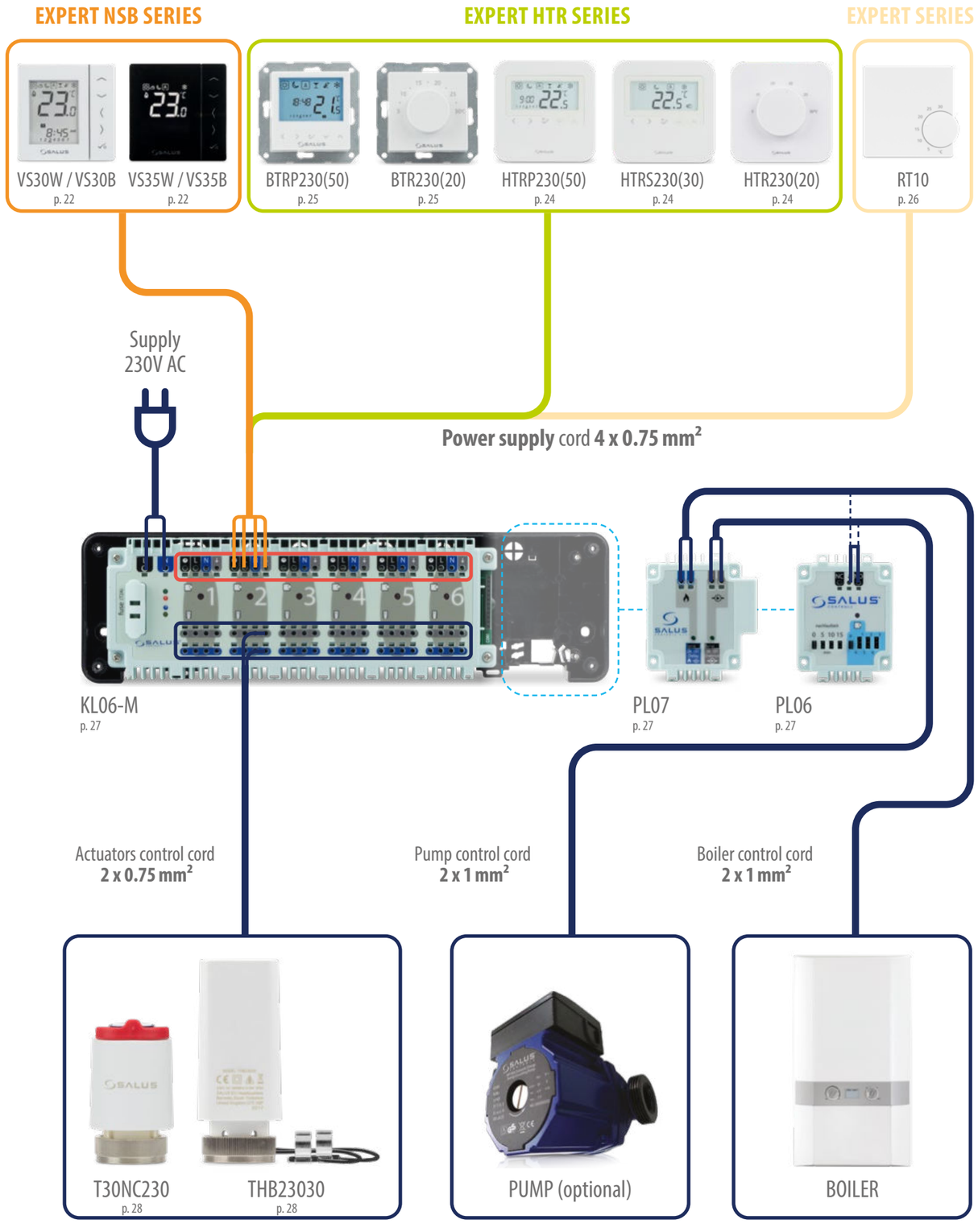
Nice evening and a peaceful sleep. Bring them to your home.

- Change the temperature to night time - economic.
- Turn on the sprinklers in the garden.
- Turn on outdoor lighting as the sun sets.

# PRODUCT ROADMAP

## WHICH THERMOSTATS YOU CAN CONNECT WITH?




Detailed wiring diagrams on pages: 48-63.

# Wired digital programmable thermostat
## VS30W / VS30B

**615132931 / 615132930**

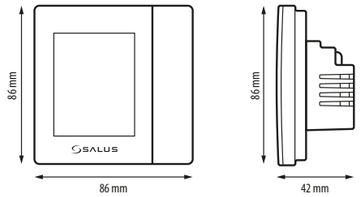
Two colour versions: black and white

Flush-mounted thermostat dedicated for surface heating / cooling control, characterized by high thermal inertia. It is connected to the wiring centre. It has the function of creating your own schedules. It can control daily thermostats - via wiring centre it sends them an NSB signal and switches them to economic temperature. Then the time schedule is common to all thermostats (according to the weekly thermostat), while temperatures are set individually on each thermostat.

**Product advantages:**
- has a PWM control algorithm
- protection against too high or too low temperature using an additional FS300 floor sensor
- valve protection function
- an input for the additional temperature sensor
- has frost protection mode
- working with actuators of both types - NC and NO
- mounting in a φ 60 mm wall box

The thermostat works with the KL08NSB or KL06-M (230V) wiring centre.

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 86 x 86 x 42 |




# Wired digital thermostat - non-programmable
## VS35W / VS35B

**615132933 // 615132932**

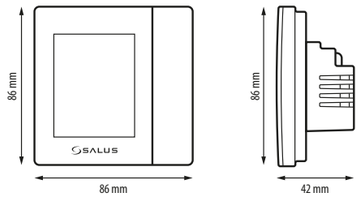
Two colour versions: black and white

Concealed room thermostat dedicated for surface heating / cooling control, characterized by high thermal inertia. It is connected to the wiring centre. The thermostat does not have the function of creating schedules - it lowers the set temperature via wiring centre after receiving the NSB signal from the weekly thermostat.

**Product advantages:**
- has a PWM control algorithm
- protection against too high or too low temperature using an additional FS300 floor sensor
- valve protection function
- an input for the additional floor sensor
- working with actuators of both types - NC and NO
- mounting in a φ 60 mm wall box

The thermostat works with the KL08NSB or KL06-M (230V) wiring centre.

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 86 x 86 x 42 |




# Wiring centre, for 8 zones
## KL08NSB

**615131403**

**Product advantages:**
- control of 8 independent heating zones
- 32 outputs for connecting the actuators (4 per zone)
- has the ability to connect an external clock
- it can be expanded with a KL04NSB module
- the ability to control the boiler and pump operation
- it has a protection for wires against breaking out
- adaptation for mounting on a 35 mm DIN rail

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 A |
| Outputs | Pump (NO/COM)<br>Boiler (NO/COM)<br>UFH thermal actuators (230 V) |
| Dimension [mm] | 355 x 85 x 67 |

The wiring centre allows easy and quick connection of wired thermostats and actuators by the PLUG-IN method. It has an integrated pump and boiler control module and overload protection. The wiring centre is adapted to work with NC (normally closed) and NO (normally opened) actuators.

*Available in 24V version - **KL08NSB 24V**
615131405

# Wiring centre extension for KL08NSB
## KL04NSB

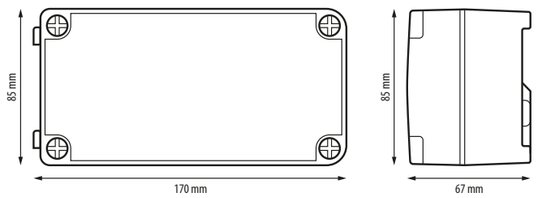
**615131400**

The module is an extension to the KL08NSB wiring centre with another 4 heating zones. Increases the functionality of the combined set to 12 individually controlled heating zones.

**Product advantages:**
- it can only work with the KL08NSB wiring centre connection
- 4 additional heating zones and 16 outputs for actuators
- has the ability to connect an external clock
- it has a protection for wires against breaking out
- adaptation for mounting on a 35 mm DIN rail

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Dimension [mm] | 170 x 85 x 67 |

*Available in 24V version - **KL04NSB 24V**
615131406



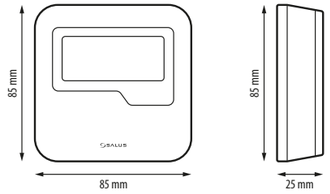
# Wired digital thermostat - programmable
## HTRP230(50)*

615122922

Surface-mounted (or on a flush-box) thermostat dedicated for surface heating / cooling control, characterized by high thermal inertia. It is connected to the wiring centre. It has the function of creating your own schedules. It can control daily thermostats - via wiring centre it sends them an NSB signal and switches them to economic temperature. Then the time schedule is common to all thermostats (according to the weekly thermostat), while temperatures are set individually on each thermostat.

**Product advantages:**
- absolutely silent operation (TRIAC)
- has a PWM control algorithm
- protection against too high or too low temperature using an additional FS300 floor sensor
- protection of thermostatic valves against stagnation (VP)
- an input for the additional temperature sensor
- has frost protection mode

| Model | HTRP230(50) | HTRP24(50) |
|---|---|---|
| Power supply | 230V AC 50 Hz | 24V AC 50 Hz |
| Rating max | 0.5 A | 1.5 A |
| Output signal | 230V AC 50 Hz | 24V AC 50 Hz |
| Temperature range | 5 - 35°C | |
| Display temperature accuracy | 0.5°C | |
| Control algorithm | PWM or Hysteresis: ±0.25°C or ±0.5°C | |
| Communication | Wired | |
| Dimension [mm] | 85 x 85 x 25 | |




*Available in 24V version - **HTRP24(50)**
615122924

The HTRP230 (50) thermostat works with KL08NSB or KL06-M (230V) wiring centres
The HTRP24 (50) thermostat works with the KL0624V wiring centre

# Wired digital thermostat - non-programmable
## HTRS230(30)

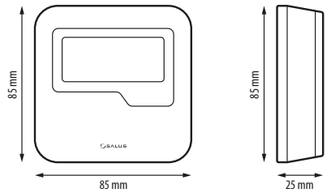
615122921

Surface-mounted (or on a flush-box) room thermostat dedicated for surface heating / cooling control, characterized by high thermal inertia. It is connected to the wiring centre. The thermostat does not have the function of creating schedules - it lowers the set temperature via wiring centre after receiving the NSB signal from the weekly thermostat.

**Product advantages:**
- absolutely silent operation (TRIAC)
- has a PWM control algorithm
- protection of thermostatic valves against stagnation (VP)
- has frost protection mode

| Zasilanie | 230V AC 50 Hz |
|---|---|
| Power supply | 0.5 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 85 x 85 x 25 |

The HTRP230 (30) thermostat works with KL08NSB or KL06-M (230V) wiring centres




# Wired electronic thermostat - non-programmable
## HTR230(20)*

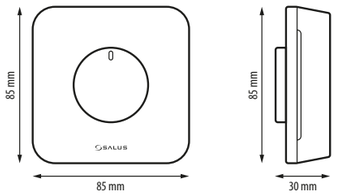
615122920

Surface-mounted (or on a flush-box) room thermostat dedicated for surface heating / cooling control, characterized by high thermal inertia. It is connected to the wiring centre, through which you can lower the set temperature on it, receiving a signal NSB (night temperature reduction) from the weekly thermostat.

**Product advantages:**
- absolutely silent operation (TRIAC)
- has a PWM control algorithm
- has the function of lowering the NSB temperature at night
- protection of thermostatic valves against stagnation (VP)

| Model | HTR230(20) | HTR24(20) |
|---|---|---|
| Power supply | 230V AC 50 Hz | 24V AC 50 Hz |
| Rating max | 0.5 A | 1.5 A |
| Output signal | 230V AC 50 Hz | 24V AC 50 Hz |
| Temperature range | 5 - 30°C | |
| Control algorithm | PWM or Hysteresis: ±0.5°C | |
| Communication | Wired | |
| Dimension [mm] | 85 x 85 x 30 | |

The HTRP230 (20) thermostat works with KL08NSB or KL06-M (230V) wiring centres
The HTRP24 (20) thermostat works with the KL0624V wiring centre




*Available in 24V version - **HTR24(20)**
615122923



# Wired, flush-mounted, digital thermostat - programmable
## BTRP230(50)

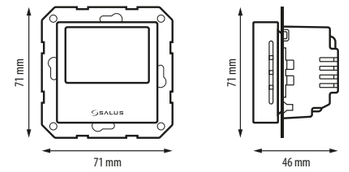
615122911

Flush-mounted room thermostat for installation in a 55x55 mm frame dedicated for surface heating / cooling control, characterized by high thermal inertia. It is connected to the wiring centre. It has the function of creating your own schedules. It can control daily thermostats - via wiring centre it sends them an NSB signal and switches them to economic temperature. Then the time schedule is common to all thermostats (according to the weekly thermostat), while temperatures are set individually on each thermostat.

**Product advantages:**
- absolutely silent operation (TRIAC)
- has a PWM control algorithm
- protection against too high or too low temperature using an additional FS300 floor sensor
- protection of thermostatic valves against stagnation (VP)
- an input for the additional temperature sensor
- has frost protection mode
- mounting in a φ 60 mm wall box

The thermostat works with the KL08NSB or KL06 (230V) wiring centres

| Power supply | 230V AC 50 Hz |
|---|---|
| Rating max | 0.5 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 71 x 71 x 46 |




HTR SERIES

# Wired, flush-mounted, electronic thermostat - non-programmable
## BTR230(20)

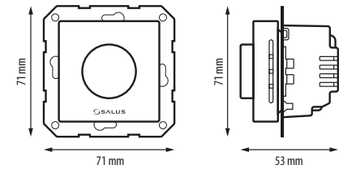
615122910

Flush-mounted room thermostat for installation in a 55x55 mm frame dedicated for surface heating / cooling control, characterized by high thermal inertia. It is connected to the wiring centre. The thermostat does not have the function of creating schedules - it lowers the set temperature via wiring centre after receiving the NSB signal from the weekly thermostat.

**Product advantages:**
- absolutely silent operation (TRIAC)
- has a PWM control algorithm
- changes the temperature according to the weekly thermostat command
- protection of thermostatic valves against stagnation (VP)
- mounting in a φ 60 mm wall box

The thermostat works with the KL08NSB or KL06 (230V) wiring centres

| Power supply | 230V AC 50 Hz |
|---|---|
| Rating max | 0.5 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 30°C |
| Control algorithm | PWM or Hysteresis: ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 71 x 71 x 53 |



Berker, Ospel and Simon frames were used for the photos.

# Wired electronic thermostat - non-programmable
## ERT2024V

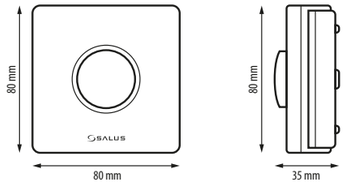
**615112972**

Surface-mounted room thermostat dedicated for surface heating / cooling control, characterized by high thermal inertia.
It is connected to a 24V wiring centre. Via wiring centre it is possible to lower the set temperature on it, receiving a signal NSB (night temperature reduction) from the weekly thermostat.

**Product advantages:**
- has a PWM control algorithm
- valve protection function
- easy to install and easy to use
- has a knob backlight when it is sending a signal to work

The thermostat works with the KL0624V wiring centre

| | |
|---|---|
| Power supply | 24V AC 50 Hz |
| Rating max | 10 (3) A |
| Output signal | 24V AC 50 Hz |
| Temperature range | 5 - 30°C |
| Control algorithm | Hysteresis: ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 80 x 80 x 35 |




# Wired electronic thermostat - non-programmable
## RT10230V*

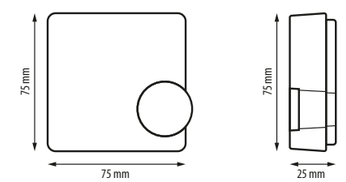
**615112920**

Surface-mounted (or on a flush-box) room thermostat dedicated for surface heating / cooling control, characterized by high thermal inertia.
It is connected to the wiring centre. Via wiring centre it is possible to lower the set temperature on it, receiving a signal NSB (night temperature reduction) from the weekly thermostat.

**Product advantages:**
- has a PWM control algorithm
- protection of thermostatic valves against stagnation (VP)
- easy to install and easy to use

The RT10230V thermostat works with KL08NSB or KL06-M (230V) wiring centres
The RT1024V thermostat works with the KL0624V wiring centre

| Model | RT10230V | RT1024V |
|---|---|---|
| Power supply | 230V AC 50 Hz | 24V AC 50 Hz |
| Rating max | 10 (2) A | 10 (3) A |
| Output signal | 230V AC 50 Hz | 24V AC 50 Hz |
| Temperature range | 5 - 30°C | |
| Control algorithm | PWM or Hysteresis: ±0.5°C | |
| Communication | Wired | |
| Dimension [mm] | 75 x 75 x 25 | |




*Available in 24V version - **RT1024V**
615112921

# Wiring centre, for 6 zones
## KL06-M*

**615111401**

The wiring centre allows easy and quick connection of wired thermostats and actuators by the PLUG-IN method.
The KL06 230V wiring centre is adapted to work with NC (normally closed) type actuators.
Up to 6 thermostats can be connected to the wiring centre.

**Product advantages:**
- control of 6 independent heating zones
- 24 outputs for connecting the actuators (4 per zone)
- the ability to control the boiler and pump operation (via PL06/PL07 module sold separately).

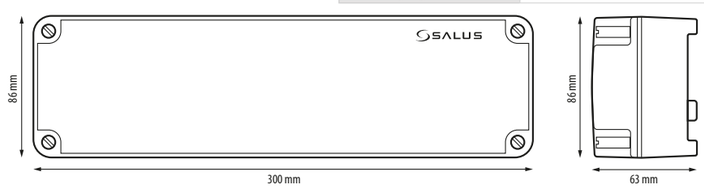
KL06-M and KL0624V wiring centres has adaptation for mounting on a 35 mm DIN rail.

KL0624V wiring centre in the set has included a transformer (230 / 24V).

| Model | KL06-M | KL0624V |
|---|---|---|
| Power supply | 230V AC 50 Hz | 24V AC 50 Hz |
| Rating max | 2 (1) A | |
| Output signal | 230V | 24V |
| Dimension [mm] | 300 x 86 x 63 | |

**Supply 24V version:**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Output voltage | 24V AC 50 Hz |
| Rated power | 80VA |
| Dimension [mm] | 81 x 90 x 68 |




*Available in 24V version - **KL0624V**
615111407



# 230V wiring centre (6 zones) with pump module
## KL06 + PL06

**615111404**

The set consists of a 230V wiring centre together with pump or boiler control module.

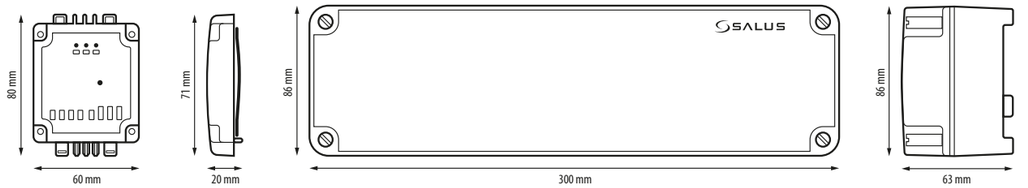
**Product advantages:**
- control of 6 independent heating zones
- 24 outputs for connecting the actuators (4 per zone)
- convenient installation of wires by using the PLUG-IN method
- adaptation for mounting on a 35 mm DIN rail
- has integrated overload protection
- possible selection of which zone starts the module first
- very easy and quick module mounting in the wiring centre

**Wiring centre:**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 2 (1) A |
| Outputs | Thermoelectric actuators (230V) |
| Dimension [mm] | 300 x 86 x 63 |

**Module:**

| | |
|---|---|
| Power supply | From KL06 wiring centre |
| Rating max | 5 (2) A |
| Output signal | NO/COM/NC |
| Dimension [mm] | 60 x 80 x 20 |




EXPERT SERIES

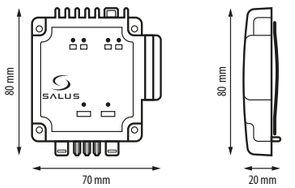
# Boiler and pump control module for KL06 wiring centre
## PL07

**615111806**

The PL07 module increases the capabilities of the KL06 wiring centre. It is used to control the circulation pump and the boiler by means of voltage-free COM / NO output contacts. The COM / NO contacts close when any of the thermostats connected to the wiring centre indicate heat demand. Otherwise, output COM/NO relay contacts are opened.

**Product advantages:**
- very easy and quick assembly into the wiring centre
- individual pump and boiler control
- adaptation to work with both voltages - 230V and 24V of KL06

| | |
|---|---|
| Power supply | From KL06 wiring centre |
| Rating max | 5 (2) A |
| Output signal | 2 x NO/COM |
| Dimension [mm] | 70 x 80 x 20 |



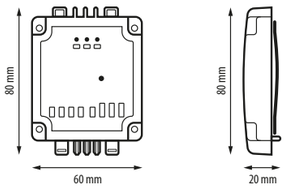

# Pump or boiler control module for KL06 wiring centre
## PL06

**615111805**

The PL06 module increases the functionality of the KL06 wiring centre. It is used to control the circulation pump (or boiler) with the potential-free NC / COM / NO output contacts. The COM / NO output closes when any of the thermostats connected to the terminal has a demand for heat. Otherwise, output COM/NO relay contacts stay opened.

**Product advantages:**
- very easy and quick assembly into the wiring centre
- possible selection of which zone starts the module first
- adaptation to work with both voltages - 230V and 24V of KL06

| | |
|---|---|
| Power supply | From KL06 wiring centre |
| Rating max | 5 (2) A |
| Output signal | NO/COM/NC |
| Dimension [mm] | 60 x 80 x 20 |



# Flush-mounted thermostat for wired control of heating devices

## WQ610

**615292903**

WQ610 is maintaining comfortable conditions in the room according to pre-programmed schedule or a fixed temperature setpoint set by user. This thermostat needs wired/direct connection to the boiler or other heating device.

WQ610 offers two connection variants:
- Activation of the heat source by built-in volt-free relay (ON/OFF)
- Boiler output modulation via OpenTherm communication protocol (OT+ 4.0)

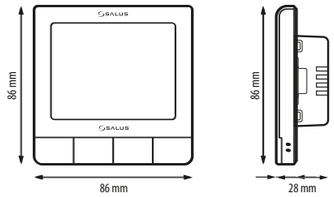
**What are the advantages of using OpenTherm?**

- two-way communication between the boiler and thermostat
- boiler output modulation for maximum efficiency
- domestic hot water (DHW) temperature regulation
- displaying errors and alarm states of the boiler on thermostat screen

**Product features:**

- automatically detects the OT+ 4.0 protocol and regulates the DHW temperature
- hysteresis or built-in ITLC control algorithms
- 3 operation modes (AUTO, MANUAL, OFF)
- PIN-protected service mode
- maximum/minimum setpoint temperature limits
- temporary override function (manually overrided setpoint temperature until next change forced by schedule)

| | |
|---|---|
| Power supply | 230V AC 50Hz |
| Max load | 3(1)A |
| Output signal | OpenTherm or COM/NO relay |
| Temperature control range | 5 - 35°C |
| Accuracy of indication | 0.1°C or 0.5° |
| Control algorithm | ITLC or Hysteresis ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimensions [mm] | 86 x 86 x 28 |




# Surface-mounted thermostat, used to control heating devices wirelessly

## WQ610RF

**615292604**

WQ610RF in maintaining comfortable conditions in the room according to pre-programmed schedule or a fixed temperature setpoint set by user. Thermostat is factory paired with the receiver. The receiver is connected to the boiler or other heat source.

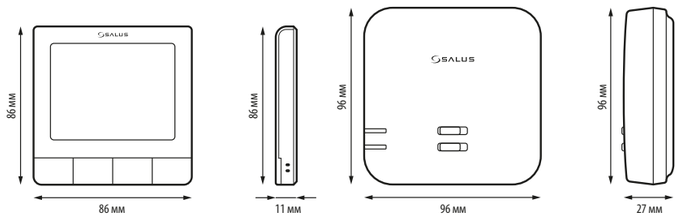
WQ610RF offers two connection variants:
Activation of the heat source by built-in volt-free relay (ON/OFF)
Boiler output modulation via OpenTherm communication protocol (OT+ 4.0)

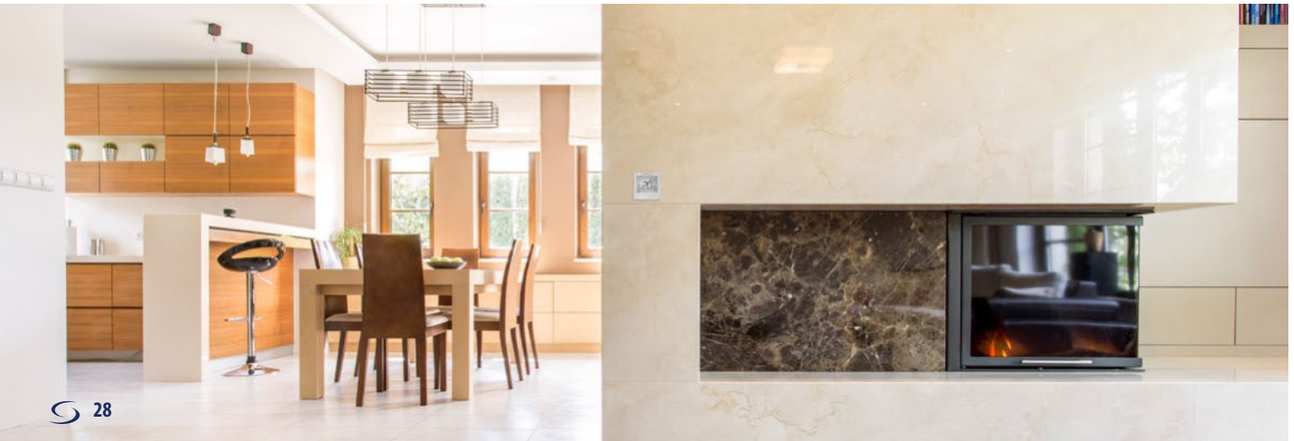
**What are the advantages of using OpenTherm?**
- two-way communication between the boiler and thermostat
- boiler output modulation for maximum efficiency
- domestic hot water (DHW) temperature regulation
- displaying errors and alarm states of the boiler on thermostat screen

**Product features:**

- the set is factory paired and prepared for operation
- maximum boiler setpoint temperature can be limited by OT+ 4.0 protocol
- hysteresis or built-in ITLC control algorithms
- 3 operation modes (AUTO, MANUAL, OFF)
- PIN-protected service mode
- maximum/minimum setpoint temperature limits
- temporary override function (manually overrided setpoint temperature until next change forced by schedule)

| | |
|---|---|
| Transmitter power supply | Built-in 3.7V Li-Ion battery |
| Power supply for the receiver | 230V AC 50Hz |
| Max load on the receiver | 16(5)A |
| Output signal | OpenTherm or COM/NO relay |
| Temperature control range | 5 - 35°C |
| Accuracy of indication | 0.1°C or 0.5°C |
| Control algorithm | ITLC or Hysteresis ±0.25°C or ±0.5°C |
| Wireless communication | 2.4 GHz |
| Dimensions [mm] Transmitter | 86 x 86 x 11 |
| Dimensions [mm] Receiver | 96 x 96 x 27 |





# OpenTherm wired, surface-mounted thermostat - programmable

## RT520

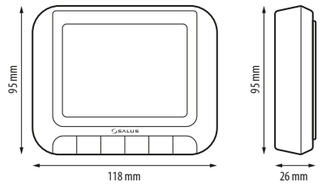
**615292902**

The surface-mounted thermostat is used for wired control of heating devices. It works by maintaining comfortable room conditions in accordance with the work schedule or a constant temperature set by the user. The thermostat is connected directly to the boiler.

**The control can be done in two ways:**
- starting the heat source by closing contacts in a heating device equipped with an input for connecting the ON / OFF thermostat
- boiler power modulation by means of communication via the OpenTherm protocol (OT + 4.0). Two-way communication between the boiler and thermostat as well as boiler power modulation ensures maximum efficiency and comfort.

**Product advantages:**
- automatically detects OT + 4.0 protocol and regulates hot water temperature
- possibility to choose Hysteresis or built-in TPI algorithm for all types of heating
- works with time schedules
- service mode protected by a PIN code
- maximum / minimum temperature limitation
- can temporarily change the temperature (overwriting until the next program change)

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating max | 3 (1) A |
| Output signal | OpenTherm or voltage free relay NC / COM / NO |
| Temperature range | 5 - 33.5°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 118 x 95 x 26 |




# OpenTherm wireless, surface mounted thermostat - programmable

## RT520RF

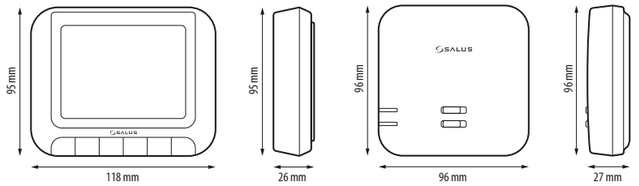
**615292601**

The surface-mounted thermostat is used for wireless control of heating devices. It works by maintaining comfortable room conditions in accordance with the work schedule or a constant temperature set by the user. The thermostat is factory-paired with the receiver. The receiver is connected to the boiler.

**The control can be done in two ways:**
- starting the heat source by closing contacts in a heating device equipped with an input for connecting the ON / OFF thermostat
- boiler power modulation by means of communication via the OpenTherm protocol (OT + 4.0). Two-way communication between the boiler and thermostat as well as boiler power modulation ensures maximum efficiency and comfort. The thermostat automatically detects the OT + 4.0 protocol, displays boiler error codes and allows you to adjust the hot water temperature.

**Product advantages:**
- **set is factory-paired and ready to work**
- option to choose Hysteresis or built-in TPI algorithm for all types of heating
- works with time schedules
- service mode protected by a PIN code
- maximum / minimum temperature limitation
- can temporarily change the temperature (overwriting until the next program change)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Thermostat's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Receiver's rating max | 16 (5) A |
| Output signal | OpenTherm or voltage free COM / NO relay |
| Temperature range | 5 - 33.0°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | Thermostat: 118 x 95 x 26<br>Receiver: 96 x 96 x 27 |



A list of compatible boilers can be found on the website

**www.salus-controls.eu**

# Thermoelectric actuator - normally closed NC

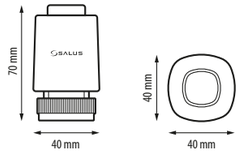
## T30NC / T28NC*

T30NC 230V - **615211603** / T28NC - **615211500**

Actuators can be used e.g. with thermostatic valves in the manifold for underfloor heating or with zone valves. They allow cutting off the heating medium supply to a given element. They can cooperate directly with room thermostats or via wiring centres (wired or wireless).
NC actuators are normally closed devices, which means that when there is no current, the actuator closes the loop. The condition of the actuator can be checked quickly thanks to the indicating element.

**Product advantages:**
- faster installation thanks to the 'FIRST OPEN' function
- short opening time - approx. 2 min
- has a stroke of about 4 mm
- small size
- consumes a small amount of power

| Model | T30NC230 / T28NC230 | T30NC24 |
|---|---|---|
| Power supply | 230V AC 50 Hz / | 24V AC/DC |
| Max. inrush current | 200 mA / 200 ms | 250 mA / 120 s |
| Power consumption | 2 W | |
| Type | NC = Normally closed | |
| Closing force | 100 N (±10%) | |
| Opening time | about 2 min | |
| Adaptive stroke length [mm] | 4 | |
| Thread's size | M30x1.5 / M28x1.5 | |
| Dimension [mm] | 40 x 70 x 40 | |
| Power cord length [cm] | 89 | |




*Available in 24V version - **T30NC 24V**
615211606

# Thermoelectric actuator - normally open NO

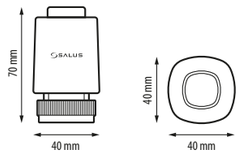
## T30NO

T30NO 230V - **615211608**

Actuators can be used e.g. with thermostatic valves in the manifold for underfloor heating or with zone valves. They allow cutting off the heating medium supply to a given element. They can cooperate directly with room thermostats or via wiring centres (wired or wireless).
NO type actuators are normally-opened devices, which means that when there is no current, the actuator opens the loop. The condition of the actuator can be checked quickly thanks to the indicating element.

**Product advantages:**
- short opening time - approx. 2 min
- has a stroke of about 4 mm
- small size
- consumes a small amount of power

| Model | T30NO230 | T30NO24 |
|---|---|---|
| Power supply | 230V AC 50 Hz / | 24V AC/DC |
| Max. inrush current | 200 mA / 200 ms | 250 mA / 120 s |
| Power consumption | 2 W | |
| Type | NO = Normally opened | |
| Closing force | 100 N (±10%) | |
| Opening time | about 2 min | |
| Adaptive stroke length [mm] | 4 | |
| Thread's size | M30x1.5 / M28x1.5 | |
| Dimension [mm] | 40 x 70 x 40 | |
| Power cord length [cm] | 89 | |




*Available in 24V version - **T30NO 24V**
615211609

# Self-regulating actuator

## THB23030

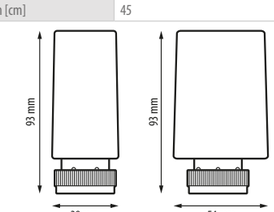
**615210214**

Self-regulating actuator dedicated for underfloor heating. It has two temperature sensors that are installed on the supply and return of the appropriate floor heating loop. It measures the temperature on the sensors and adjusts its operation to maintain the correct temperature difference between supply and return (ΔT).

**Product advantages:**
- easy to install on the manifold
- guarantees efficient heating even at different loop lengths
- has 2 contact sensors for measuring the flow and return temperature in the heating loop
- fast opening and closing time (approx. 30 seconds)
- low power consumption (less than 0.5 W)

Fits the most popular M30x1.5 thread size

| Model | THB23030 | THB2430 |
|---|---|---|
| Power supply | 230V AC 50 Hz | 24V AC/DC |
| Power consumption | 0,5 W | |
| Closing force | 30 seconds | |
| Protection class | IP54 | |
| Thread's size | M30 x 1.5 | |
| Dimension [mm] | 93 x 38 x 54 | |
| Power cord length [cm] | 93 | |
| Sensor cord length [cm] | 45 | |




*Available in 24V version - **THB2430**
615210215



# Internet thermostat - programmable

## iT500

**615151298**

A wireless set of devices that allows you to control the temperature of CO and hot water timer through the **free iT500 Plus mobile application.**

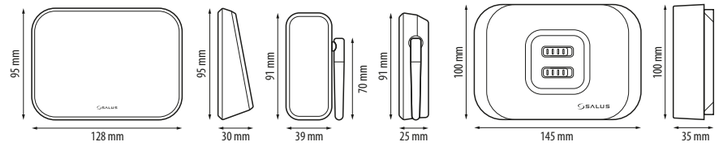
**The thermostat can be configured to control:**
- one heating zone
- two independent heating zones (an additional iT300 temperature sensor should be purchased)
- one heating zone and hot water timer

**In the set:**
- iT500TR thermostat
- iT500RX receiver
- iTG500 internet gateway with power supply

**Product advantages:**
- has a stable 868 MHz signal
- wirelessly communicates between devices
- the receiver has two control outputs

GET IT ON Google Play
Download on the App Store
**Free iT500 Plus app**

| Power supply | iT500TR: 2 x AA batteries<br>iTG500: 5V DC<br>iT500RX: 230V AC 50 Hz |
|---|---|
| Rating max | CH1: 16 (5) A<br>CH2: 5 (3) A |
| Output | 2 x NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | iT500TR: 128 x 95 x 30<br>iTG500: 39 x 91 x 25, antenna: 70<br>iT500RX: 145 x 100 x 35 |




# Wireless, electronic thermostat - programmable

## xT500

**615152695**

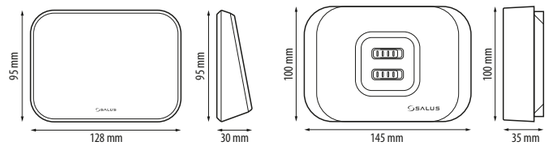
A wireless set of devices that allows you to control the temperature of CO and hot water timer.

**The thermostat can be configured to control:**
- one heating zone
- two independent heating zones (an additional iT300 temperature sensor should be purchased)
- one heating zone and hot water timer

**In the set:**
- Thermostat transmitter (iT500TR),
- Thermostat receiver (iT500RX)

**Product advantages:**
- works according to schedules
- has a stable 868 MHz signal
- wirelessly communicates between devices
- the receiver has two control outputs

| Power supply | iT500TR: 2 x AA batteries<br>iT500RX: 230V AC 50 Hz |
|---|---|
| Rating max | CH1: 16 (5) A<br>CH2: 5 (3) A |
| Output | 2 x NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | Hysteresis: ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | iT500TR: 128 x 95 x 30<br>iT500RX: 145 x 100 x 35 |




# Wireless temperature sensor for iT500 thermostat

## iT300

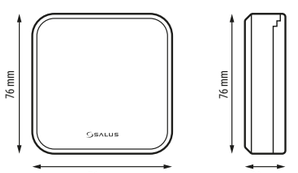
**615150499**

The sensor is adapted to work with the iT500 internet thermostat or XT500 wireless thermostat. The thermostat must be configured to support two heating zones, then the iT300 sensor controls the second heating zone.

**Product advantages:**
- has a stable 868 MHz signal
- wirelessly communicates between devices

**WARNING! The Salus iT300 sensor is not included in the iT500 / XT500 kit**

| Power supply | 2 x AAA batteries |
|---|---|
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 76 x 76 x 22 |




# Internet gateway compatible with iT500 and RT310i

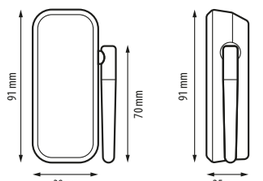
## iTG310

**615201229**

The iTG310 Internet gateway allows you to control RT310i, iT500 or XT500 thermostats via the Internet using a mobile application.
It is very easy to install and all network settings are downloaded automatically.

**Product advantages:**
- has a LED diode that indicate the device is ready for operation
- guarantees low power consumption
- power adapter with LAN cable included
- replacement for iTG500 internet gateway

| Power supply | 5V DC |
|---|---|
| Port | 1 x 10/100 LAN port |
| Dimension [mm] | 39 x 91 x 25, antenna: 70 |



# Internet wireless thermostat
## RT310i

**615201227**

Thermostat with internet control. Works with heating devices that have an input for connecting an ON / OFF thermostat. It works by maintaining comfortable conditions in the room in accordance with the temperature set by the user.
Using the dedicated RT310i application, parameters can be changed, work schedules can be created or the heating device can be turned ON / OFF remotely.

**In the set:**
- Thermostat's transmitter (RT310TX)
- Thermostat's receiver (RXRT510)
- internet gateway (iTG310)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- has the ability to change hysteresis settings (RT310i app)
- adjustable frost protection temperature 5-9 ° C (RT310i app)
- has unique transmission codes

Download the free **RT310i** app

GET IT ON Google Play | Download on the App Store

**Transmitter**

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0,5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 96 x 96 x 27 |

**Gateway**

| | |
|---|---|
| Power supply | 5V DC |
| Port | 1 x 10/100 LAN port |
| Dimension [mm] | 39 x 91 x 25, antenna: 70 |

**RXRT510**

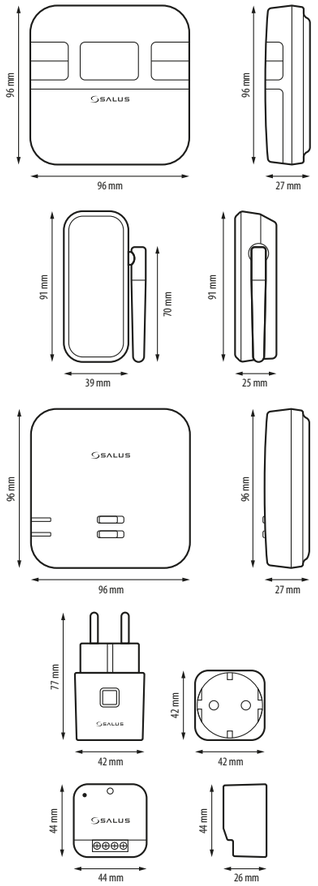
| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM relay |
| Dimension [mm] | 96 x 96 x 27 |

**SPE868**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | Schuko plugin |
| Dimension [mm] | 42 x 77 x 42 |

**SR868**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM relay |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 44 x 44 x 26 |




# Internet wireless thermostat
## RT310iSPE

**615201228**



Thermostat with internet control. Works with devices equipped with a cable with a plug, e.g. electric heaters, circulation pumps. It works by maintaining comfortable room conditions in accordance with the set temperature. Recommended for controlling e.g. circulation pumps. Parameters can be changed using the dedicated RT310i application, work schedules can be created or the device can be turned ON / OFF remotely.

**In the set:**
- Thermostat's transmitter (RT310TX)
- Thermostat's receiver (SPE868 plug)
- internet gateway (iTG310)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- has the ability to change hysteresis settings (RT310i app)
- adjustable frost protection temperature 5-9 ° C (RT310i app)
- has unique transmission codes

Download the free **RT310i** app

GET IT ON Google Play | Download on the App Store

# Internet wireless thermostat
## RT310iSR

**615201230**

Thermostat with internet control. Intended for controlling electric heating. It works by maintaining comfortable conditions in the room in accordance with the temperature set by the user. Recommended for controlling e.g. heating panels or electric heaters. Parameters can be changed using the dedicated RT310i application, work schedules can be created or the device can be turned ON / OFF remotely.

**In the set:**
- Thermostat's transmitter (RT310TX)
- Thermostat's receiver (SR868)
- internet gateway (iTG310)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- has the ability to change hysteresis settings (RT310i app)
- adjustable frost protection temperature 5-9 ° C (RT310i app)
- has unique transmission codes

Download the free **RT310i** app

GET IT ON Google Play | Download on the App Store



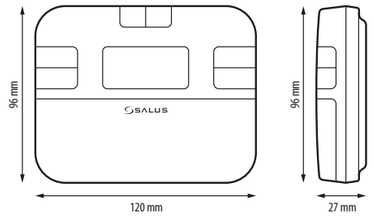
# Wired, electronic thermostat - programmable
## RT510

**615202935**

The thermostat is used for wired control of heating devices. Starts the heat source by closing the contacts. The thermostat is connected directly to the boiler. It works by maintaining comfortable room conditions in accordance with the work schedule or a constant temperature set by the user.

**Product advantages:**
- has a TPI control algorithm
- works according to time schedules
- can temporarily change the temperature (overwriting until the next program change)
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3°C
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating max | 3 (1) A |
| Output signal | NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Communication | Wired |
| Dimension [mm] | 120 x 96 x 27 |



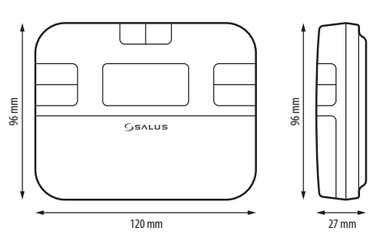

# Transmitter of the programmable thermostat
## RT510TX

**615202038**

The transmitter is designed to work only with the RXRT510 receiver, SPE868 plug and SR868 relay. After pairing, it works by maintaining comfortable conditions in the room, in accordance with the work schedule or a constant temperature set by the user. The device does not work alone.

**Product advantages:**
- has a TPI control algorithm
- automatically repeats the signal
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3°C
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 120 x 96 x 27 |




STANDARD

# Wireless, electronic thermostat - programmable
## RT510RF

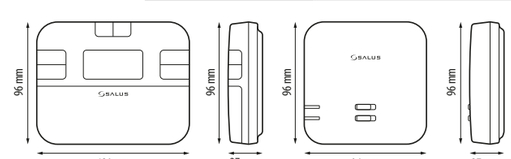
**615202636**

The thermostat is used for wireless control of heating devices equipped with an input
to connect an ON/OFF thermostat. It works by maintaining comfortable room conditions in accordance with the schedule work or a constant temperature set by the user. Recommended for controlling e.g. gas and oil boilers.

**In the set:**
- Thermostat's transmitter (RT510TX)
- Thermostat's receiver (RXRT510)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- works according to time schedules
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3°C
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | RXRT510 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 120 x 96 x 27<br>receiver: 96 x 96 x 27 |



# Wireless, electronic thermostat - programmable
## RT510SPE

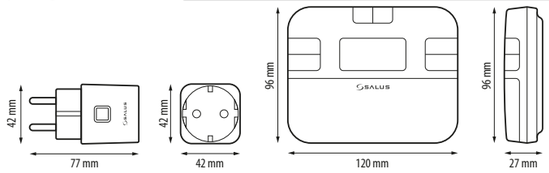
615202637

The thermostat is used for wireless control of devices equipped with a cable with a plug, e.g. electric heaters, circulation pumps. It works by maintaining comfortable room conditions in accordance with the work schedule or a constant temperature set by the user. Recommended for controlling e.g. circulation pumps.

**In the set:**
- Thermostat's transmitter (RT510TX)
- Thermostat's receiver (SPE868)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- works according to time schedules
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3ºC
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | Schuko plug |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | SPE868 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 120 x 96 x 27<br>receiver: 42 x 77 x 42 |




# Wireless, electronic thermostat - programmable
## RT510SR

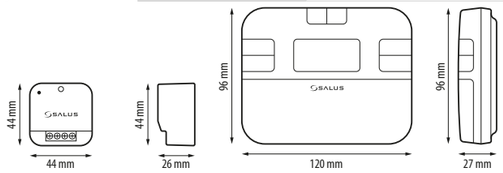
615202635

The thermostat is used for wireless control of electric heating. It works by maintaining comfortable room conditions in accordance with the schedule work or a constant temperature set by the user. Recommended for controlling e.g. heating panels or electric heaters.

**In the set:**
- Thermostat's transmitter (RT510TX)
- Thermostat's receiver (SR868)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- works according to time schedules
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3ºC
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | SR868 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 120 x 96 x 27<br>receiver: 44 x 44 x 26 |




### TRANSMITTER
Choose one transmitter **RT510TX** or **RT310TX**

RT510TX

RT310TX

### RECEIVER
Choose any number of receivers **RXRT510, SPE868** or **SR868**

RXRT510

SPE868

SR868

### KIT
Create your wireless kit or choose one of the ready-made suggestions

RT510RF

RT310RF

RT510SPE

RT310SPE

RT510SR

RT310SR



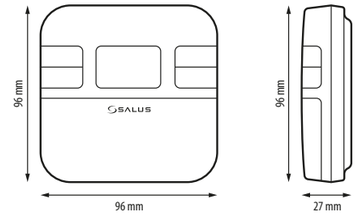
# Wired, electronic thermostat - non-programmable
## RT310

615202926

The thermostat is used for wired control of heating devices. Starts the heat source by closing the contacts. The thermostat is connected directly to the boiler. It works by maintaining comfortable conditions in the room, in accordance with the constant temperature set by the user.

**Product advantages:**
- has a TPI control algorithm
- the hysteresis settings can be changed
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3ºC
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating max | 3 (1) A |
| Output signal | NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Communication | Wired |
| Dimension [mm] | 96 x 96 x 27 |



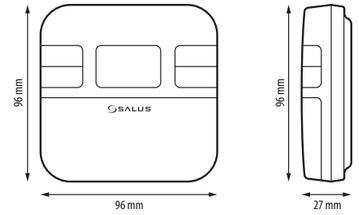

# Non-programmable thermostat transmitter
## RT310TX

615202031

The transmitter is designed to work only with the RXRT510 receiver, SPE868 plug and SR686 relay. After pairing, it works by maintaining comfortable conditions in the room, in accordance with the constant temperature set by the user. The device does not work alone.

**Product advantages:**
- has a TPI control algorithm
- automatically repeats the signal
- works according to time schedules
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3ºC
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 96 x 96 x 27 |




STANDARD

# Wireless, electronic thermostat - non-programmable
## RT310RF

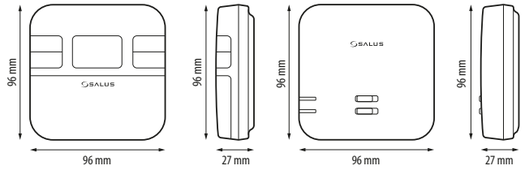
615202629

The thermostat is used to wirelessly control heating devices equipped with an ON / OFF thermostat input. It works by maintaining comfortable conditions in the room, in accordance with the constant temperature set by the user. Recommended for controlling e.g. gas and oil boilers.

**In the set:**
- Thermostat's transmitter (RT310TX)
- Thermostat's receiver (RXRT510)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3ºC
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | RXRT510 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 96 x 96 x 27<br>receiver: 96 x 96 x 27 |



# Wireless, electronic thermostat - non-programmable
## RT310SPE

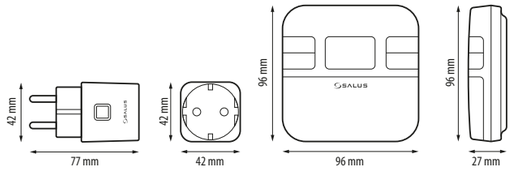
**615202630**

The thermostat is used for wireless control of devices equipped with a cable with a plug, e.g. electric heaters, circulation pumps. It works by maintaining comfortable conditions in the room, in accordance with the constant temperature set by the user. Recommended for controlling e.g. circulation pumps.

**In the set:**
- Thermostat's transmitter (RT310TX)
- Thermostat's receiver (SPE868 plug)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3°C
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | Schuko plug |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | SPE868 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 96 x 96 x 27<br>receiver: 42 x 77 x 42 |




# Wireless, electronic thermostat - non-programmable
## RT310SR

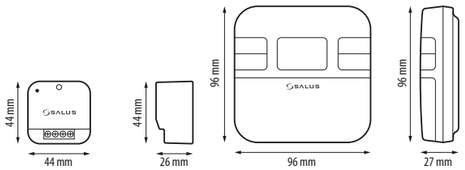
**615202634**

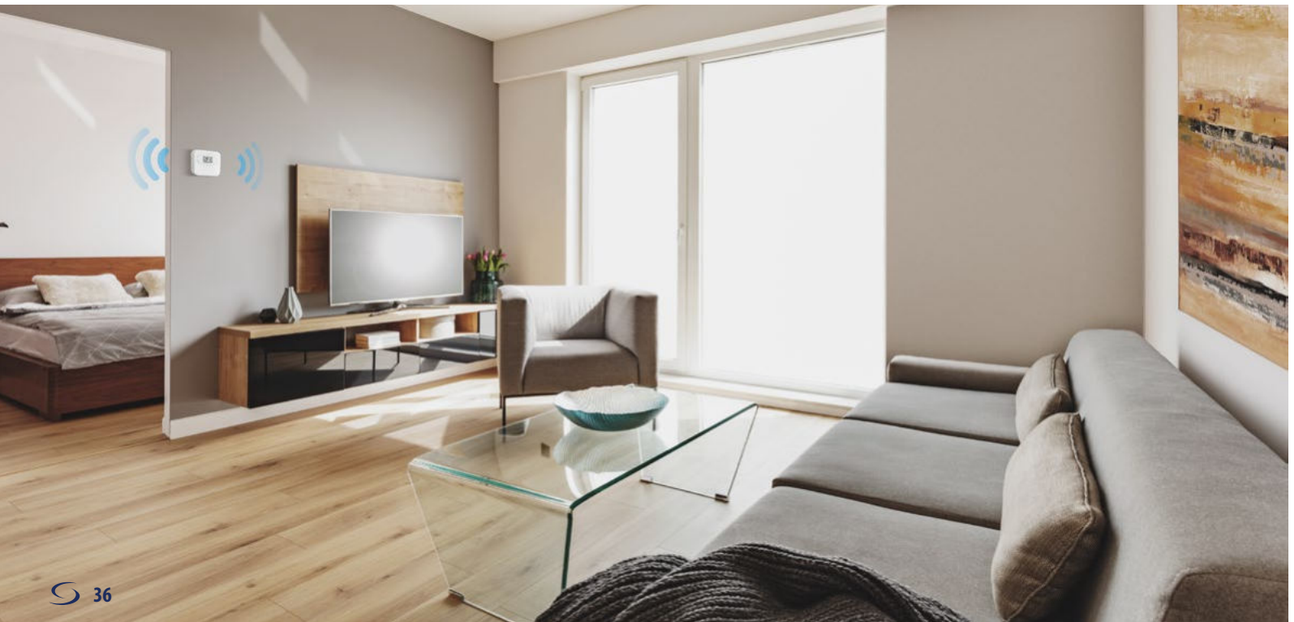
The thermostat is used to wirelessly control electric heating. It works by maintaining comfortable conditions in the room, in accordance with the constant temperature set by the user. Recommended for controlling e.g. heating panels or electric heaters.

**In the set:**
- Thermostat's transmitter (RT310TX)
- Thermostat's receiver (SR868 relay)
- thermostat stand

**Product advantages:**
- **set factory-paired and ready to work**
- has a TPI control algorithm
- automatically repeats the signal
- has a frost protection mode (temperature range 5 - 17 degrees)
- correction of the displayed temperature ± 3°C
- has a HOLIDAY mode and SLEEP mode (suspending the function, e.g. outside the heating season)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | SR868 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 96 x 96 x 27<br>receiver: 44 x 44 x 26 |





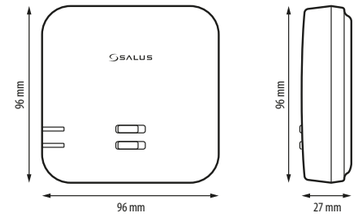
# Receiver for RT series wireless thermostats
## RXRT510

**615252182**

Most suitable for boiler control. Works with thermostats from the STANDARD series: 091FLRFv2(TX), RT310TX, RT510TX.

**Product advantages:**
- has a manual or automatic mode (according to the thermostat)
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM relay |
| Dimension [mm] | 96 x 96 x 27 |



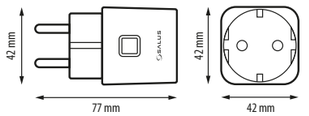

# Receiver for RT series wireless thermostats
## SPE868

**615202139**

Most suitable for controlling a circulation pump or electric heater. The plug is plugged into an electrical socket, which allows you to control devices connected to it. Works with thermostats from the STANDARD series: 091FLRFv2(TX), RT310TX, RT510TX.

**Product advantages:**
- easy and quick to install
- has a protection against children
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | Schuko plug |
| Dimension [mm] | 42 x 77 x 42 |



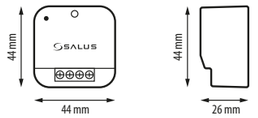

# Receiver for RT series wireless thermostats
## SR868

**615252185**

Most suitable for controlling electric heating. Works with thermostats from the STANDARD series: 091FLRFv2 (TX), RT310TX, RT510TX.

**Product advantages:**
- designed to work in a wall-box
- has unique transmission codes
- operates at 868 MHz - a stable and noise-resistant signal

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM relay |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 44 x 44 x 26 |



# Wired, electronic thermostat - programmable

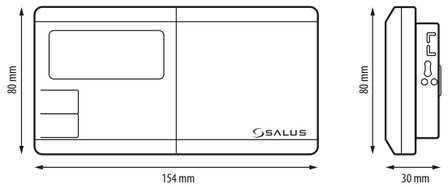
## 091FLv2

**615142911**

The thermostat is used for wired control of heating devices (e.g. gas, oil boilers, heat pumps) or cooling devices. It is connected directly to the heating device. Maintains comfortable room conditions in accordance with pre-programmed time and temperature settings. The user should choose the right temperature for himself: comfort temperature (daytime) and economic temperature (nighttime).

**Product advantages:**
- contains 9 programs (6 default, 3 individual)
- has 3 temperature levels - daytime, nighttime and frost protection
- has a HEATING / COOLING function

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating max | 5 (3) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 30°C |
| Display temperature accuracy | 0.2°C |
| Control algorithm | Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 154 x 80 x 30 |




# Electronic wireless thermostat - programmable

## 091FLRFv2

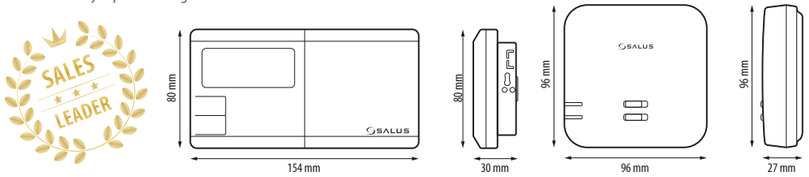
**615142612**

The thermostat is used to wirelessly control heating devices (e.g. gas, oil boilers, heat pumps) or cooling devices. It works by maintaining comfortable conditions in the room in accordance with the programmed settings. The user should choose two temperature levels suitable for him: comfort temperature (daytime) and economic temperature (nighttime).
Additionally, it can work with SPE868 plugs and SR868 relays.

**In the set:**
- Thermostat's transmitter
- Thermostat's receiver (RXRT510)

**Product advantages:**
- **set factory-paired and ready to work**
- contains 9 programs (6 default, 3 individual)
- has 3 temperature levels - daytime, nighttime and frost protection
- has a HEATING / COOLING function
- operates at 868 MHz - a stable and noise-resistant signal
- has a working range of up to 60m in open space
- has unique transmission codes
- automatically repeats the signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 30°C |
| Display temperature accuracy | 0.2°C |
| Control algorithm | Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 154 x 80 x 30<br>receiver: 96 x 96 x 27 |



# Wired, electronic thermostat - programmable

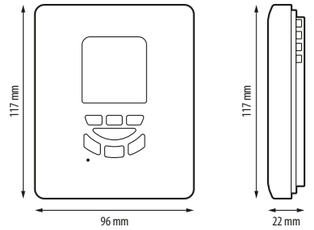
## T105

**615232981**

The thermostat is used for wired control of heating devices (e.g. gas, oil boilers, heat pumps) or cooling devices. It is connected directly to the heating device. Maintains comfortable room conditions in accordance with pre-programmed time and temperature settings. The user should choose the right temperature for himself: comfort temperature (daytime) and economic temperature (nighttime).

**Product advantages:**
- contains 9 programs (6 default, 3 individual)
- has 3 temperature levels - daytime, nighttime and frost protection
- has a HEATING / COOLING function
- has an auto-adaptation function (allows to reach the desired temperature in time)

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating max | 5 (3) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 30°C |
| Display temperature accuracy | 0.2°C |
| Control algorithm | Hysteresis: ±0.4°C, ±0.8°C, ±1.4°C or ±1.8°C |
| Communication | Wired |
| Dimension [mm] | 96 x 117 x 22 |




# Electronic thermostat - programmable

## T105RF

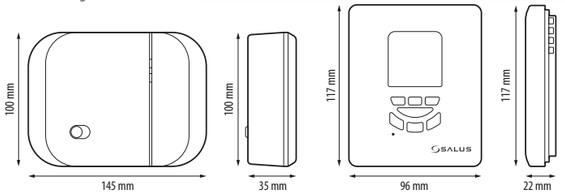
**615232682**

The thermostat is used to wirelessly control heating devices (e.g. gas, oil boilers, heat pumps) or cooling devices. It works by maintaining comfortable conditions in the room in accordance with the programmed settings. The user should choose two temperature levels suitable for him: comfort temperature (daytime) and economic temperature (nighttime).

**In the set:**
- Thermostat's transmitter T105(TX)
- Thermostat's receiver RXRT505

**Product advantages:**
- contains 9 programs (6 default, 3 individual)
- has 3 temperature levels - daytime, nighttime and frost protection
- has a HEATING / COOLING function
- has an auto-adaptation function (allows to reach the desired temperature in time)
- has a working range of up to 60m in open space
- operates at 868 MHz - a stable and noise-resistant signal
- automatically repeats the signal

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 30°C |
| Display temperature accuracy | 0.2°C |
| Control algorithm | Hysteresis: ±0.4°C, ±0.8°C, ±1.4°C or ±1.8°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 96 x 117 x 22<br>receiver: 129 x 100 x 35 |

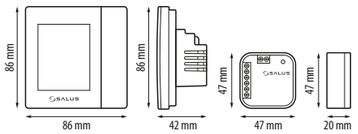



# Set VS30 + RM-16 A for boiler control

## VS30W+RM-16 A / VS30B+RM-16 A

**615232912 / 615232911**

Two colour versions: black and white




A set of devices prepared for controlling any heat sources (e.g. gas, oil or solid fuel boiler) equipped with an input for connecting an ON / OFF thermostat. The thermostat can control electric heating mats if equipped with an FS300 floor temperature sensor (sold separately).

**In the set:**
- VS30 thermostat
- RM-16A relay module

**Product advantages:**
- has a PWM control algorithm
- ideal for controlling electric underfloor heating
- the ability to create your own schedules and control non-programmable thermostats
- gives protection against too high or too low floor temperature
- has an input for an additional floor temperature sensor
- you can mount it in a φ 60 mm box

**The RM-16A relay provides:**
- possibility to connect any heat source (NO / COM / NC contact)
- the ability to connect devices with a load of up to 16 A

**VS30**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 86 x 86 x 42 |

**RM-16A**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 16 A / 250V AC |
| Voltage free NO / COM input | Connection of a thermostat with a NO / COM voltage free relay |
| SL voltage inputs | Connection of a thermostat with a 230V AC output signal |
| Output signal | NO/COM/NC relay |
| Dimension [mm] | 47 x 47 x 20 |

# Wireless, electronic, surface-mounted thermostat - non-programmable

## ERT20RF

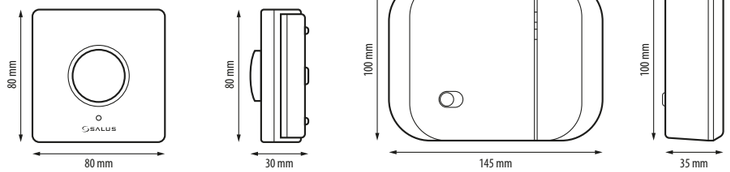
**615232685**

**In the set:**
- Thermostat's transmitter
- Thermostat's receiver (RXRT505)

**Product advantages:**
- has LED diode indication in work mode
- has a HEATING / COOLING function
- ideal solution for seniors

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating max | 16 (5) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 32.5°C |
| Control algorithm | Hysteresis: ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 80 x 80 x 30<br>receiver: 129 x 100 x 35 |

An electronic, surface-mounted room thermostat that allows you to easily adjust the room temperature. The thermostat is used to wirelessly control heating devices equipped with an ON / OFF thermostat input.




# Wired mechanical non-programmable thermostat

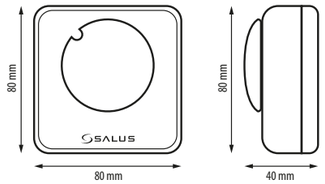
## RT100

**615202920**

RT100 is a bimetallic room thermostat, used to control a boiler or actuators - thermoelectric actuators, shut-off valves or pumps. The device can work in 230V and 24V installations.

**Product advantages:**
- can be connected to any heat source (NO / COM / NC contacts)
- has a minimalist housing
- easy to assemble and use

| | |
|---|---|
| Rating max | 1 A |
| Output signal | NO/COM/NC |
| Temperature range | 10 - 30°C |
| Communication | Wired |
| Dimension [mm] | 80 x 80 x 40 |




# Wired, electronic thermostat - non-programmable

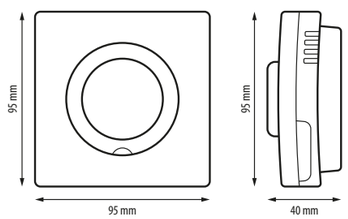
## RT200

**615202922**

A surface-mounted wired thermostat provides control for 230V devices.

**Product advantages:**
- the mounting plate allows wall attach
- indicates operation thanks to LED highlighted ring
- easy to assemble and use

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 (1) A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Control algorithm | Hysteresis: ±1°C |
| Communication | Wired |
| Dimension [mm] | 95 x 95 x 40 |






# Electronic, surface-mounted programmer, single-channel

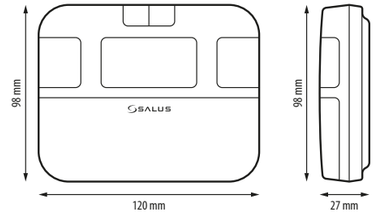
## EP110

**615232952**

The single-channel surface-mounted programmer facilitates the operation of electrical devices (such as pumps or lighting) by setting their operating time (on and off). It has a display, which makes it even more useful.

**Product advantages:**
- works on a daily or 5-2 (Mon-Fri + Sat-Sun) cycle
- allows separation of 3 time intervals (accuracy to the minute)
- maintains clock settings

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 (1) A |
| Output signal | NO/COM/NC voltage-free relay |
| Number of channels | 1 |
| Dimension [mm] | 120 x 98 x 27 |




# Electronic, surface-mounted programmer, two-channel

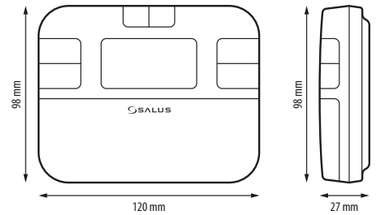
## EP210

**615232954**

The two-channel surface-mounted programmer facilitates the operation of electrical devices (such as pumps or lighting) by setting their operating time (on and off). It has a display, which makes it even more useful.

**Product advantages:**
- can control two separate devices
- works on a daily or 5-2 (Mon-Fri + Sat-Sun) cycle
- allows separation of 3 time intervals (accuracy to the minute)
- maintains clock settings

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 (1) A |
| Output signal | 2 x SPDV 230V AC |
| Number of channels | 2 |
| Dimension [mm] | 120 x 98 x 27 |




# Electronic, surface-mounted programmer, three-channel

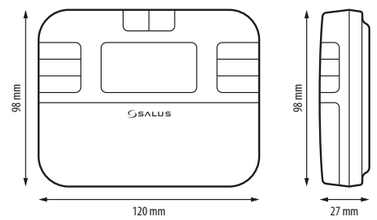
## EP310

**615232955**

The three-channel surface-mounted programmer facilitates the operation of electrical devices (such as pumps or lighting) by setting their operating time (on and off). It has a display, which makes it even more useful.

**Product advantages:**
- can control three separate devices
- works on a daily or 5-2 (Mon-Fri + Sat-Sun) cycle
- allows separation of 3 time intervals (accuracy to the minute)
- maintains clock settings

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 (1) A |
| Output signal | 3 x SPDV 230V AC |
| Number of channels | 3 |
| Dimension [mm] | 120 x 98 x 27 |



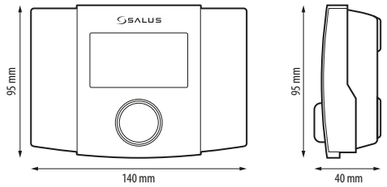
# Weather thermostat for controlling the temperature of the heating circuit
## WT100

515232703

**In the set:**
- outdoor temperature sensor (CT6-P) - 1 pcs.
- contact temperature sensor (CT10-X) - 2 pcs.

**Product advantages:**
- controls according to the heating curve - ideal temperature regardless of the weather
- has a schedule of time reductions
- automatic detection of the heating season
- controls pump operation
- has the function of protecting the pump against stagnation
- has anti-freeze function and protects against overheating

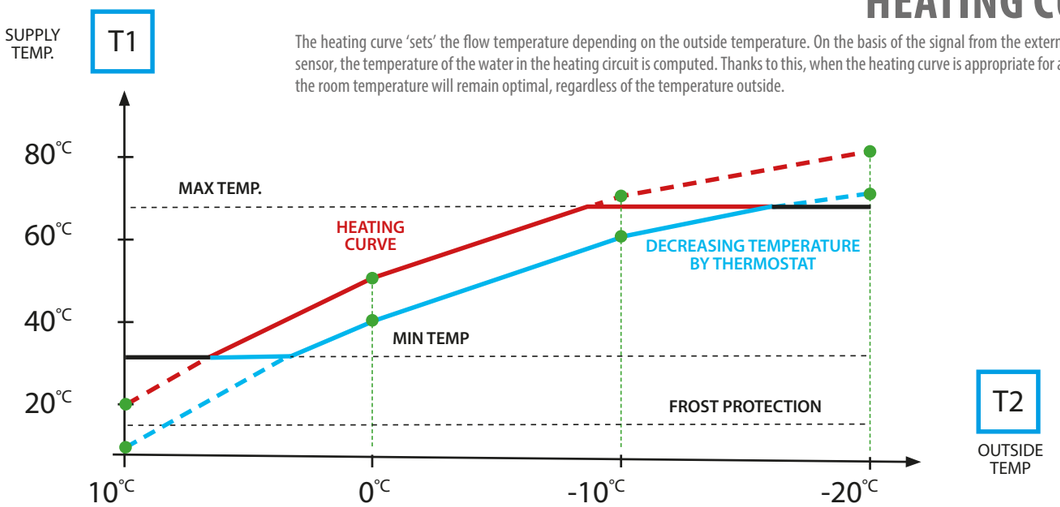
| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating max | 3 (3) A |
| Inputs | T1- mixer temperature<br>T2- outside temperature<br>T3- return temperature<br>T4- boiler temperature<br>TP- room thermostat input |
| Outputs | Heating circuit pump<br>Mixing valve control output<br>Heating sources control output |
| Protection class | IP20 |
| Ambient temperature | T40 |
| Dimension [mm] | 140 x 95 x 40 |




Regulates the temperature in the heating circuit with a 3 or 4-way valve, equipped with a 3-point drive. It has the ability to connect an additional circulation pump. It can also control the heat source via a voltage-free contact. Works with all ON / OFF thermostats.

# HEATING CURVE

The heating curve 'sets' the flow temperature depending on the outside temperature. On the basis of the signal from the external temperature sensor, the temperature of the water in the heating circuit is computed. Thanks to this, when the heating curve is appropriate for a given building the room temperature will remain optimal, regardless of the temperature outside.



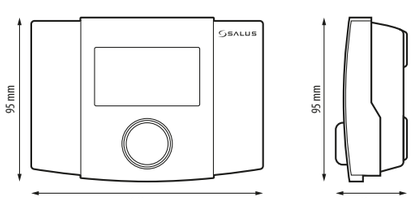

# Solar circuits controller
## PCSOL 201

515183013

**In the set:**
- temperature sensor (CT6-PT1000)
- temperature sensor (CT6W-PT1000)

**Product advantages:**
- 12 ready-to-use operation schemes
- smooth control of the solar pump (thanks to PWM)
- presents a diagram of recovered energy from the collector from the last days
- has the option of heat discharge

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Measurement inputs | 4 temperature sensors inputs |
| Low voltage outputs | Output (H) 5 - 6 V / 0.1 A (DC)<br>Output PWM for controlling the solar pump (only P1) |
| High voltage outputs P1, P2 | 230V AC 50 Hz / max 0.5 A |
| Load ability P1, P2 | 0.5 A (AC) / output |
| Frequency of the PWM signal | 200 Hz |
| Signal level | 5V |
| Protection class | IP20 |
| Ambient temperature | T40 |
| Controller power consumption | 0.02 A (1.5 W) |
| Communication | Wired |
| Dimension [mm] | 140 x 95 x 40 |




Electronic thermostat used to distribute heat from solar collectors. Controls the solar circuit system (depending on the data obtained from the temperature sensors) in such a way that it is possible to obtain as much energy as possible from the collector. Works with HIGH EFFICIENCY solar pumps controlled by PWM signal.



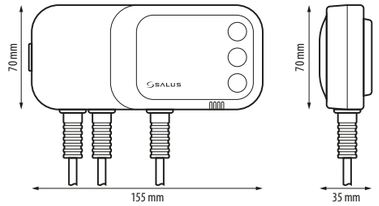
# Pump controller for CH system
## PC11

815182899

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 advantages:**
- protection against freezing (ANTI-frost function)
- preventing pump from failure (ANTI-stop function)
- sound alarm (to avoid overheating)
- simple operation via 3 buttons

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 6 A |
| Power consumption | 2 W |
| Temperature range | 5 - 80˚C |
| Temperature measurement range | 0 - 99˚C |
| Operating temperature | -10 - 50˚C |
| Sensor wire length | 1.2 m |
| Dimension [mm] | 155 x 70 x 35 |



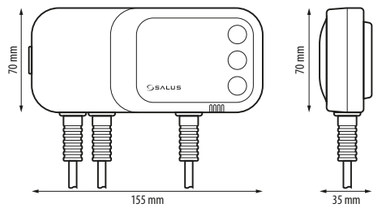

# Pump controller for CH or DHW system
## PC11W

815182898

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 advantages:**
- own temperature settings for switching ON / OFF the pump
- displaying of the measured temperature
- an option of working in manual mode
- protection against freezing (ANTI-frost function)
- preventing pump from failure (ANTI-stop function)
- sound alarm (to avoid overheating)
- simple operation via 3 buttons

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 6 A |
| Power consumption | 2 W |
| Adjustable temperature range (ON) | 5 - 80˚C |
| Adjustable temperature range (OFF) | 10 - 85˚C |
| Temperature measurement range. | 0 - 99˚C |
| Operating temperature | -10 - 50˚C |
| Sensor wire length | 1.2 m |
| Dimension [mm] | 155 x 70 x 35 |



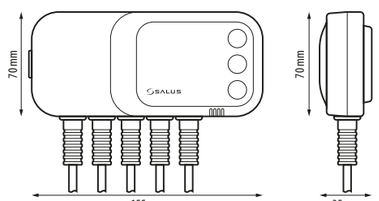

# Pump controller for CH and DHW system
## PC12HW

815182897

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 advantages:**
- displaying of the measured temperature
- an option of working in manual mode
- summer mode, which limits out-of-season CH operation
- preventing pump from failure (anti-stop function)
- optimally hot water (thanks to the DHW priority mode)
- sound alarm (to avoid overheating)
- simple operation via 3 buttons

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 6 A |
| Power consumption | 2 W |
| Temperature range | 5 - 80˚C for CH<br>5 - 80˚C for DHW |
| Temperature measurement range | 0 - 99˚C |
| Operating temperature | -10 - 50˚C |
| Sensor wire length | 1.2 m |
| Dimension [mm] | 155 x 70 x 35 |

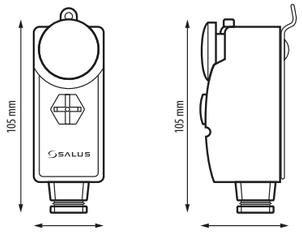


## Pipe / Cylinder thermostat
# AT10
**615232890**

It has a knob with which you can easily change and control the temperature in the central heating circuit. It can be used to turn on circulation pumps, boiler or switching valves. Also used as a safety thermostat in underfloor heating to turn off the circulation pump when the feed water temperature is too high.

**Product advantages:**
- has a temperature range between 30°C and 90°C
- easy to mount on the pipe surface
- 2 types of connection: turning above or below the selected temperature parameter
- used as a safety thermostat (additional protection)

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (4) A |
| Output signal | NO/COM/NC contacts |
| Temperature range | 30 - 90°C |
| Dimension [mm] | 105 x 45 x 50 |

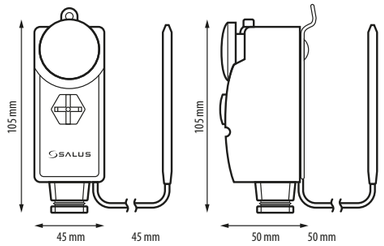



## Pipe / Cylinder thermostat with capillary
# AT10F
**615232891**

Mechanical thermostat for wall mounting, equipped with an external temperature sensor (capillary). It has a knob with which you can easily change and control the temperature in the DHW or CH circuit. It can be used to turn on circulation pumps, boiler or to activate zone or switching valves when loading DHW tanks.

**Product advantages:**
- has a temperature range between 30°C and 90°C
- easy to mount on the pipe surface
- 2 types of connection: turning above or below the selected temperature parameter
- used as a safety thermostat (additional protection)

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (4) A |
| Output signal | NO/COM/NC contacts |
| Temperature range | 30 - 90°C |
| Dimension [mm] | 105 x 45 x 50<br>capillary length: 1200<br>Ø capillary: 7 |



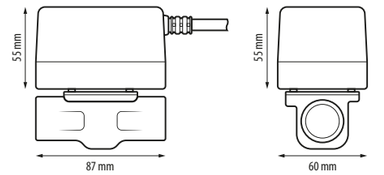
## Two-way valve, shut-off (zone)
# PMV21 / PMV24
**615240100 / 615240101**

The zone valve with electric drive was created to control the flow of water in the central heating system. The body is made of brass, on which is mounted an actuator with a return spring and a limit switch. It is possible to manually open the valve and block it. The actuator is made in NC version (without power supply, valve is closed).

**Product advantages:**
- standard hydraulic and electrical connectors
- can be used in heating and cooling installations
- the actuator housing can be removed
- standard wires

Available thread sizes:
PMV21 - 1“
PMV24 - 3/4”

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 A |
| Power consumption | 6 W |
| Output | NO/COM contacts |
| Fluid temperature range | 5°C - 88°C |
| Max static pressure | 8.6 bar |
| Differential pressure | 1” - 0.8 bar / 3/4” - 0.6 bar |
| Protection class | IP20 |
| Dimension [mm] | 87 x 55 x 60 |



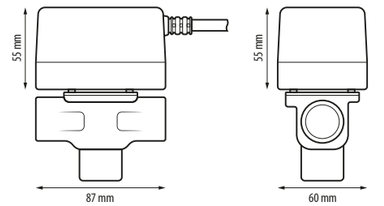

## Three-way valve, diverter (zone)
# PMV31 / PMV34
**615243502 / 615243503**

The three-way switching valve with electric drive was created to control the flow of water in the central heating system. The body is made of brass, on which is mounted an actuator with a return spring and a limit switch. It is possible to manually switch the valve and block it. The valve is recommended for the split function. The flow direction without power supply is from AB to B.

**Product advantages:**
- standard hydraulic and electrical connectors
- stable construction
- can be used in heating and cooling installations
- standard wires

Available thread sizes:
PMV31 - 1“
PMV34 - 3/4”

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 A |
| Power consumption | 6 W |
| Output | NO/COM contacts |
| Fluid temperature range | 5°C - 88°C |
| Max static pressure | 8.6 bar |
| Differential pressure | 1” - 0.8 bar / 3/4” - 0.6 bar |
| Protection class | IP20 |
| Dimension [mm] | 87 x 55 x 60 |

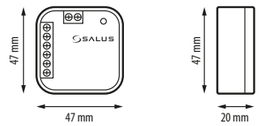



## 16A - relay module
# RM-16A
**815252588**

The RM-16A relay module is used to enable / disable electrical devices. Thanks to its small dimensions, it can be mounted in a flush-mounting box, or where there is a need to control a receiver with a maximum load of 16 A.

**Example use:**
- Control of a heating device (ON-OFF type) by 230V AC voltage signal from thermostat from EXPERT NSB, HTR, BTR series (e.g. VS30 / HTRP / BTRP).
- Control of a solid-fuel boiler (which requires an NC/COM contact) by connecting a temperature thermostat with a COM/NO output to the RM16-A relay module (e.g. T105).
- Connecting a receiver which needs more power than the thermostat relay allows. The maximum current consumption of an electrical device should not exceed 16A.
- To relieve wiring centre's relay (KL06 / KL08NSB / KL08RF) when more actuators are connected than allowed or other devices than thermoelectric actuators are plugged into the wiring centre's zone outputs (e.g. pumps, motor valves, electric heating mats).

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 A / 250V AC |
| Voltage free NO / COM input | Connection of a thermostat with a NO / COM voltage free relay |
| SL voltage inputs | Connection of a thermostat with a 230V AC output signal |
| Output signal | NO/COM/NC relay |
| Dimension [mm] | 47 x 47 x 20 |



# MAG-Defender flow magnetic filter
## MD22A / MD34AW0

**615250650 / 615250651**

The device catches impurities with a strong neodymium magnet. It protects the central heating installation and extends the life of the boiler, pump. Recommended for systems with an electronic circulation pump. Increases the efficiency of the CH system.

**In the set:**
- filter with a special key to open it
- 22mm connection valves (model MD22A) - 2 pcs.
- connection valves 3/4 "(model MD34AW0) - 2 pcs.
- drain valve

**Product advantages:**
- removes up to 100% suspension of iron oxide
- the ability to take out neodymium magnet
- simple installation, easy to clean and maintain
- 500 ml capacity

Versions available:
MD22A - 22 mm
MD34AW0 - 3/4"

# Remote Mains Switch
## RR868

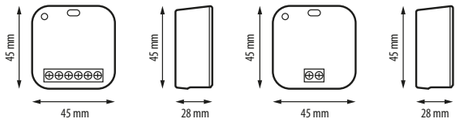
**615252590**

The set is used for wireless switching on of electrical devices, e.g. pumps, fans, lighting. The ideal solution in the absence of wiring. The transmitter and receiver can be mounted in a φ 60 mm box.

**In the set:**
- transmitter
- receiver
- two surface-mounted housing

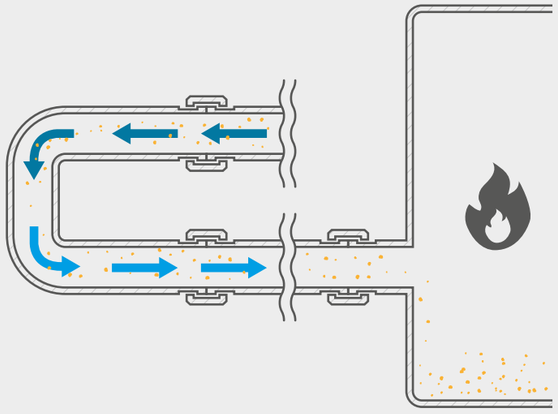
**Product advantages:**
- can be used for wireless signal transmission about the work or failure of electrical devices in automation
- transmitter and receiver are factory-paired

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 5 (3) A |
| Output signal | 230 V AC |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 45 x 45 x 20 |
| Housing dimension [mm] | 84 x 84 x 28 |



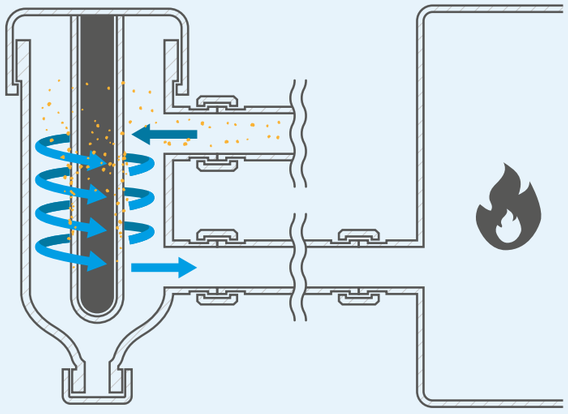

## Without using a filter

Lack of filter causes sludge and impurities to enter the boiler. This results in a shortened service life and bad operation of the heat source.



## With using Mag Defender filter

The filter effectively stops sludge and dirt, which extends the life of the boiler.



# Inhibitor
## LX1

**615252241**

LX1 is a protection liquid against internal corrosion, stone and sludge. Can be used for any heating system. Preservative.

**Product advantages:**
- long-term protection and maintenance of the heating system
- prevents sludge build-up
- one package is enough for every 100 liters of installation capacity

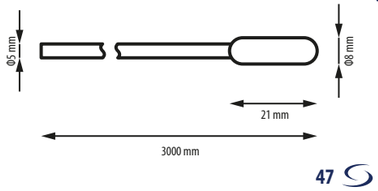
# Temperature sensor
## FS300

**615250431**

Floor sensor (e.g. for installation in the floor). Thanks to the appropriate thickness and rigidity, dedicated to protect underfloor heating. It allows you to measure the air temperature in a room at a distance.

**Compatible with thermostats:**
- Expert HTR series: HTRP230, BTRP230
- NSB Expert series: VS30W, VS30B, VS35W, VS35B
- Smart Home series: SQ610, SQ610RF, VS10WRF, VS10BRF, VS20WRF VS20BRF, HTRS-RF(30), HTRP-RF(50), TS600
- FC600 fan coil thermostat

| | |
|---|---|
| Measuring range | -10°C - 100°C |
| Thermistor | NTC 10 kΩ |
| Cord length | 3 m |
| Cross-section | 2 x 0.5 mm² |



# Heating circuit temperature sensor

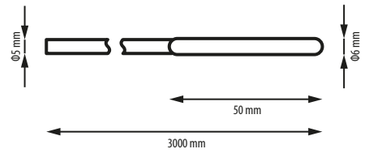
## CT10-X 3M

**515250420**

The sensor measures the temperature of the liquid by contact or through a protective sleeve.

**Product advantages:**
- it is NOT waterproof
- it is recommended to use thermal paste during assembly
- works with the WT100 weather thermostat

| | |
|---|---|
| Measuring range | 0°C - 100°C |
| Thermistor | NTC 10 kΩ |
| Cord length | 3 m |
| Cross-section | 2 x 0.5 mm$^2$ |




# Container temperature sensor

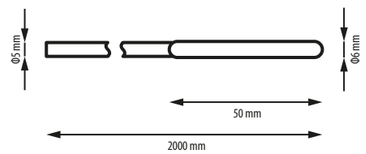
## CT6-PT1000

**515250421**

The sensor measures the temperature of the liquid by contact or through a protective sleeve in the container.

**Product advantages:**
- it is NOT waterproof
- it is recommended to use thermal paste during assembly
- cooperates with the solar thermostat PcSol201

| | |
|---|---|
| Measuring range | 0°C - 100°C |
| Thermistor | Pt1000 |
| Cord length | 2 m |
| Cross-section | 2 x 0.5 mm$^2$ |




# Collector temperature sensor

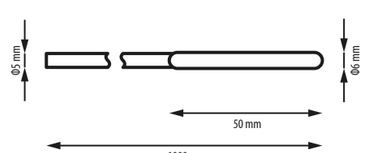
## CT6 W-PT1000

**515250422**

The sensor measures the temperature of the liquid by contact or through a protective sleeve in the collector.

**Product advantages:**
- it is NOT waterproof
- it is recommended to use thermal paste during assembly
- cooperates with the solar thermostat PcSol201

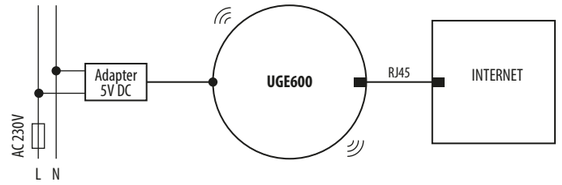
| | |
|---|---|
| Measuring range | -40°C - 180°C |
| Thermistor | Pt1000 |
| Cord length | 1 m |
| Cross-section | 2 x 0.5 mm$^2$ |





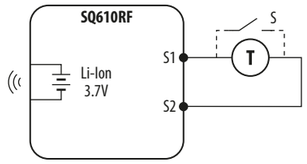

## UGE600

| | |
|---|---|
| Power supply | 5V DC |
| Port | 1x10/100 LAN port |
| Mounting | Table or wall mounted |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | H=55.5 Ø=90 |



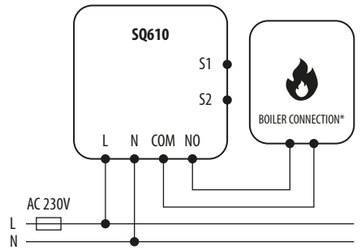

## SQ610RF

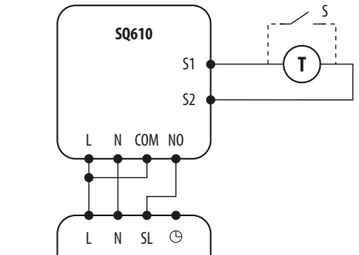
| | |
|---|---|
| Power supply | Built-in Li-Ion 3,7V Battery |
| Temperature range | 5 - 40°C |
| Display temperature accuracy | 0.5°C or 0.1°C |
| Control algorithm | ITLC or<br>Hysteresis: ±0.25°C / ± 0.5°C<br>THB |
| Communication | Wireless, ZigBee 2.4 GHz |
| S1 and S2 input | Floor temperature sensor<br>External air sensor<br>Occupancy sensor<br>OneTouch rule trigger<br>Heating/Cooling modes changeover |
| Working temperature | 0 - 45°C |
| Protection class | IP30 |
| Dimension [mm] | 86 x 86 x 11 |

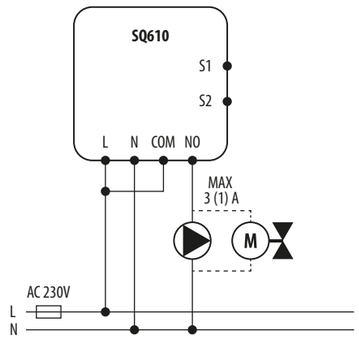



## SQ610

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 (1) A |
| Temperature range | 5 - 40°C |
| Display temperature accuracy | 0.5°C or 0.1°C |
| Control algorithm | ITLC or<br>Hysteresis: ±0.25°C / ± 0.5°C<br>THB |
| Communication | Wireless, ZigBee 2.4 GHz |
| S1 and S2 input | Floor temperature sensor<br>External air sensor<br>Occupancy sensor<br>OneTouch rule trigger<br>Heating/Cooling modes changeover |
| Output control | COM / NO (volt-free) |
| Working temperature | 0 - 45°C |
| Protection class | IP30 |
| Dimension [mm] | 86 x 86 x 28 |
| Thickness after mounting in a wall-box φ60 [mm] | 10 |

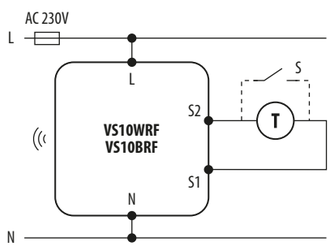


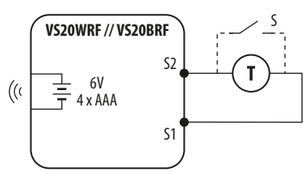

## VS10WRF / VS10BRF

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | 86 x 86 x 42 |
| Thickness after mounting in a wall-box φ60 [mm] | 16.5 |




## VS20WRF / VS20BRF

| | |
|---|---|
| Power supply | 4 x AAA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | 86 x 86 x 29 |

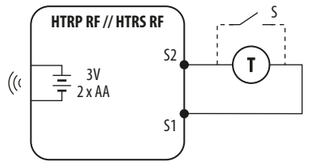


## HTRP-RF(50)

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 85 x 85 x 25 |

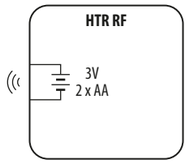
## HTRS-RF(30)

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 85 x 85 x 25 |



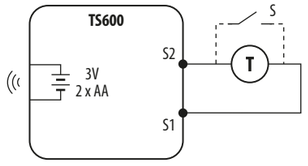

## HTR-RF(20)

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 32.5°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | TPI or<br>Hysteresis: ±0.25°C |
| Communication | ZigBee 2.4 GHz |
| Dimension [mm] | 80 x 80 x 35 |



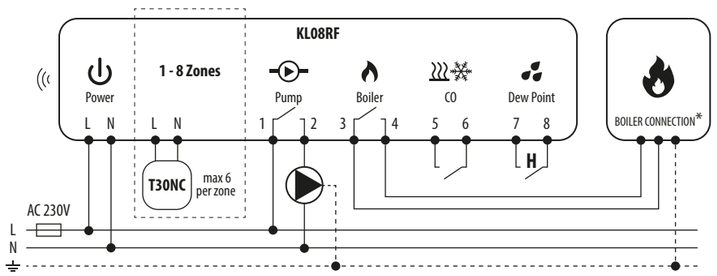

## TS600

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C (only in the app) |
| Control algorithm | TPI or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | 51 x 85 x 26 |



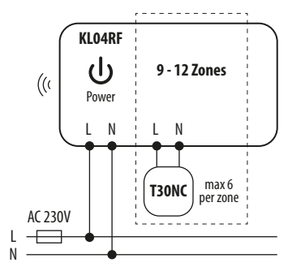

## KL08RF

| Model | KL08RF | KL08RF24V |
|---|---|---|
| Power supply | 230V AC 50 Hz | 230V AC 50 Hz |
| Rating Max | 3 A | 2 A |
| Inputs | Heating/cooling changeover<br>Dew point | |
| Outputs | Pump (NO/COM)<br>Boiler (NO/COM) | |
| Actuator outputs | 230V | 24V |
| Communication | Wireless, ZigBee 2.4 GHz | |
| Dimension [mm] | 355 x 85 x 67 | |



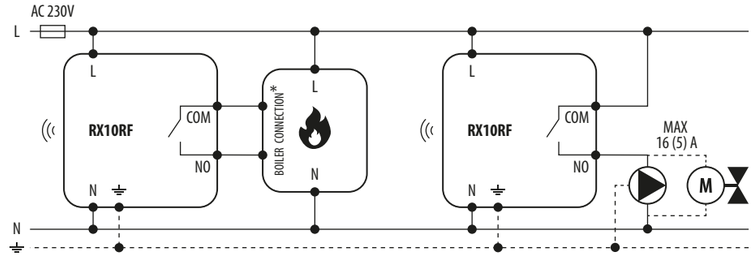

## KL04RF

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Dimension [mm] | 170 x 85 x 67 |



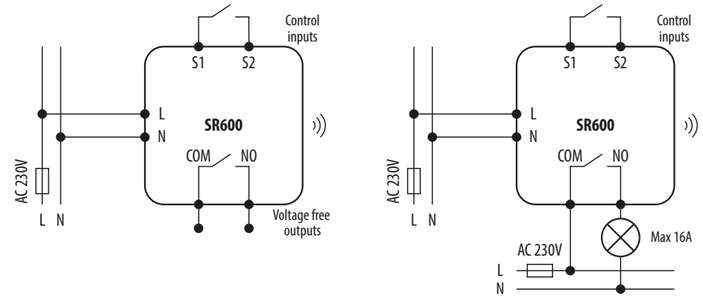

## RX10RF

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM relay |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | 145 x 100 x 35 |



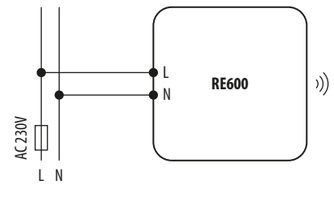

## SR600

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM relay |
| Input | S1 and S2 |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | 45 x 45 x 20 |



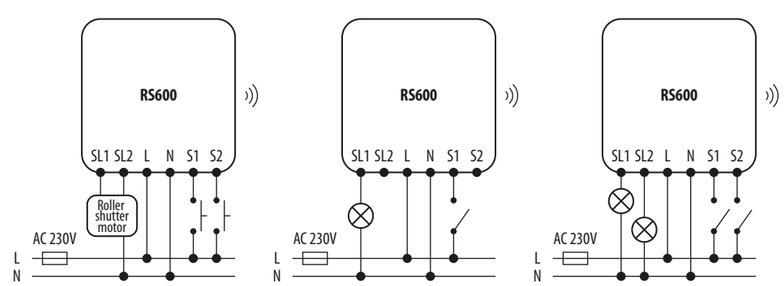

## RE600

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | 45 x 45 x 20 |



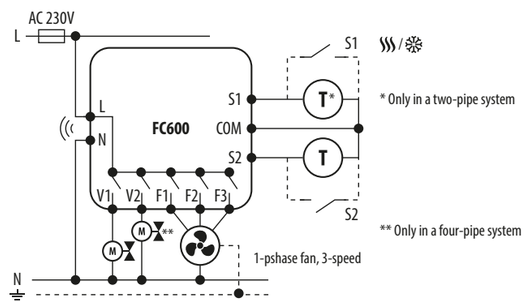

## RS600

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 5 (2) A |
| S1, S2 input | 230V AC 50 Hz |
| SL1, SL2 output | 230V AC 50 Hz |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | 45 x 45 x 20 |



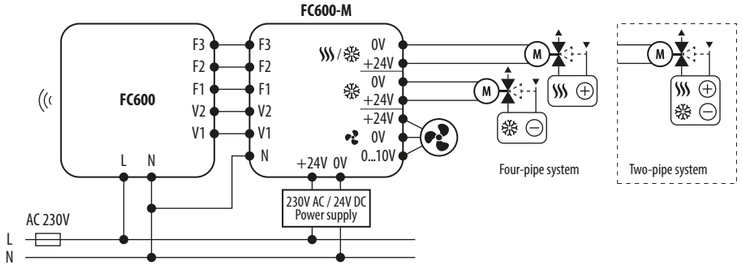

## FC600

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 5 (2) A |
| Control outputs:<br>- Fan Speed control (I, II, III gear)<br>- Valve actuator (cooling/heating) | 230 V AC 50 Hz |
| Temperature range | 5 - 40°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Communication | Wireless, ZigBee 2.4 GHz |
| Dimension [mm] | 86 x 86 x 46 |
| Thickness after mounting in a wall-box φ60 [mm] | 16.5 |



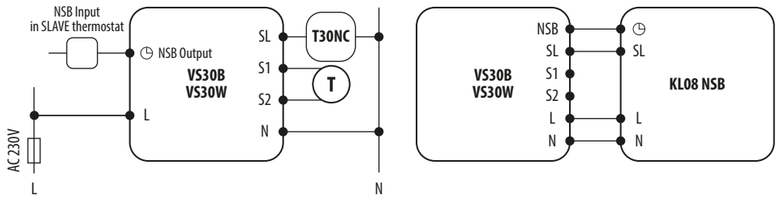
## FC600-M 0-10V

| | |
|---|---|
| Power supply | 24V DC |
| Inputs:<br>- F1,F2,F3: Low/Medium/High fan speeds<br>- V1, V2: Valve inputs (heating and cooling) | 230V AC |
| Outputs:<br>- Fan supply and control<br>- V1, V2: Valve outputs (heating and cooling) | 24V DC; 6.5 A<br>0...10V<br>24V DC; 1 A |
| Mounting | 35 mm DIN rail |
| Dimension [mm] | 51 x 90 x 65 |



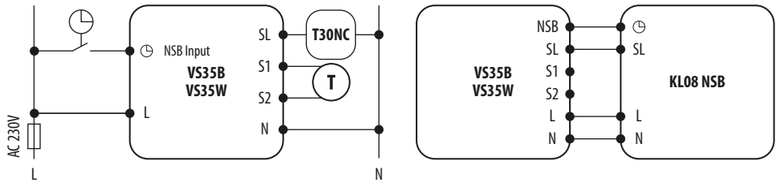

## VS30W / VS30B

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 86 x 86 x 42 |



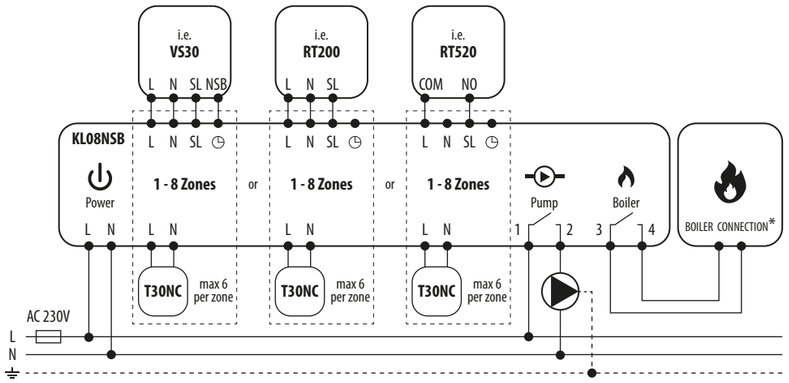

## VS35W / VS35B

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 86 x 86 x 42 |



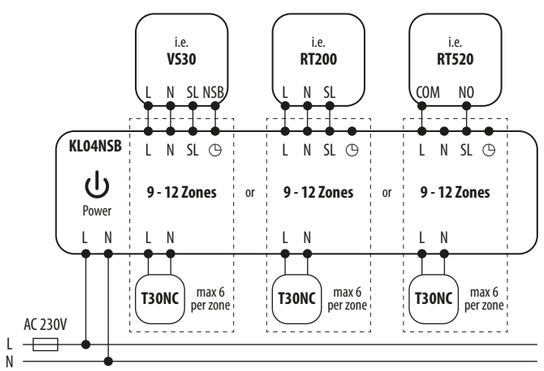

## KL08NSB

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 A |
| Input | External clock (230V) |
| Output | Pump (NO/COM)<br>Boiler (NO/COM)<br>UFH thermal actuators (230V) |
| Dimension [mm] | 355 x 85 x 67 |




## KL04NSB

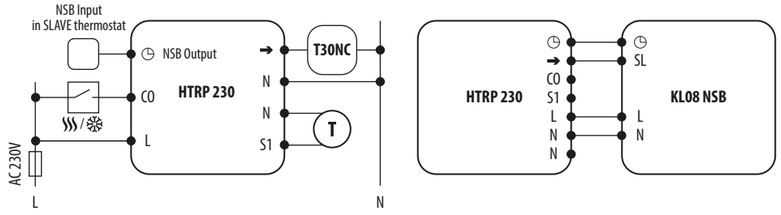
| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Dimension [mm] | 170 x 85 x 67 |





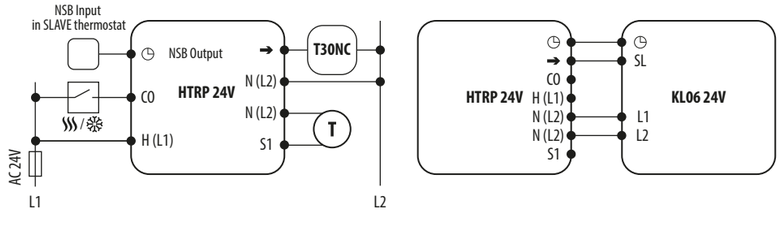

## HTRP230(50)

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 0.5 A (230V) |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 85 x 85 x 25 |



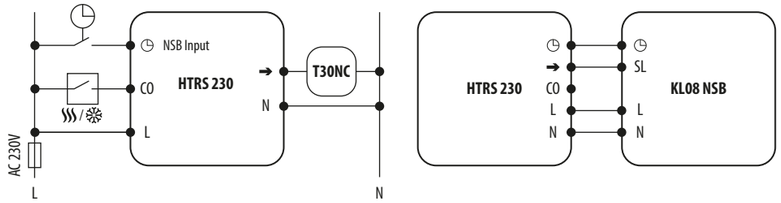

## HTRP24(50)

| | |
|---|---|
| Power supply | 24V AC 50 Hz |
| Rating Max | 1.5 A (24V) |
| Output signal | 24V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 85 x 85 x 25 |



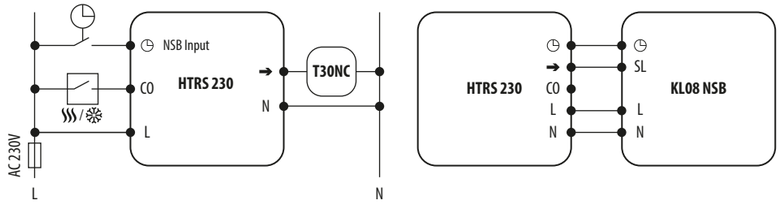

## HTRS230(30)

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 0.5 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 85 x 85 x 25 |



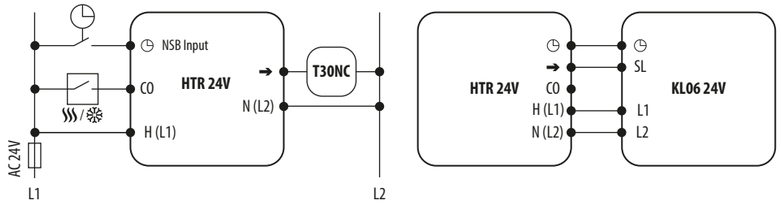

## HTR230(20)

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 0.5 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 30°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 85 x 85 x 30 |



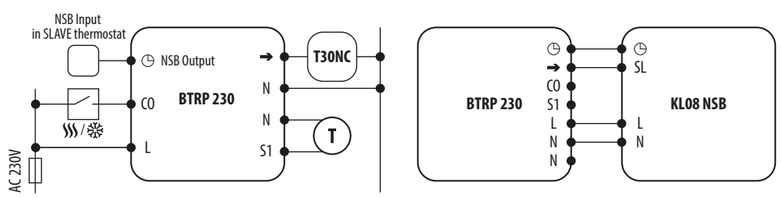

## HTR24(20)

| | |
|---|---|
| Power supply | 24V AC 50 Hz |
| Rating Max | 0.5 A |
| Output signal | 24V AC 50 Hz |
| Temperature range | 5 - 30°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 85 x 85 x 30 |



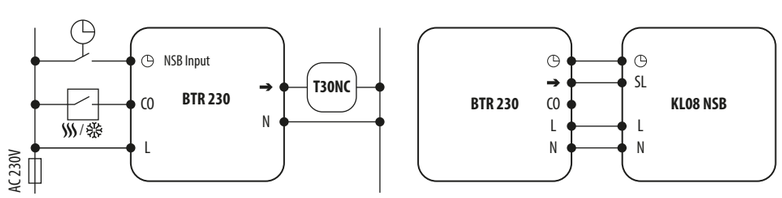

## BTRP230(50)

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 0.5 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 71 x 71 x 46 |



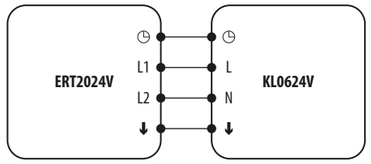

## BTR230(20)

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 0.5 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 30°C |
| Control algorithm | PWM or<br>Hysteresis: ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 71 x 71 x 53 |



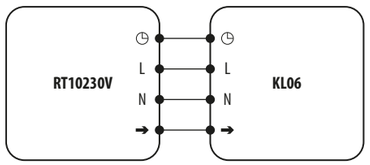
## ERT2024V

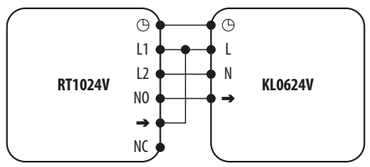
| | |
|---|---|
| Power supply | 24V AC 50 Hz |
| Rating Max | 10 (3) A |
| Output signal | 24V AC 50 Hz |
| Temperature range | 5 - 30°C |
| Control algorithm | Hysteresis: ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 80 x 80 x 35 |




## RT10230V / RT1024V

| Model | RT10230V | RT1024V |
|---|---|---|
| Power supply | 230V AC 50 Hz | 24V AC 50 Hz |
| Rating Max | 10 (2) A | 10 (3) A |
| Output signal | 230V AC 50 Hz | 24V AC 50 Hz |
| Temperature range | 5 - 30°C | |
| Control algorithm | PWM or Hysteresis: ±0.5°C | |
| Communication | Wired | |
| Dimension [mm] | 75 x 75 x 25 | |



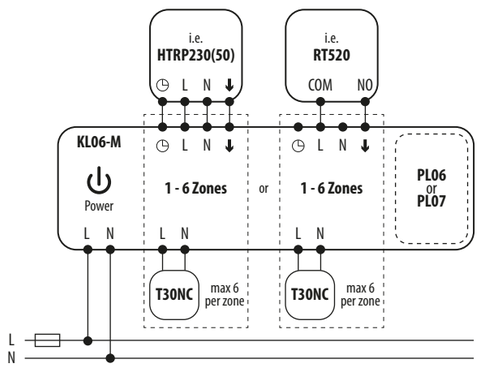




## KL06-M / KL0624V

| Model | KL06-M | KL0624V |
|---|---|---|
| Power supply | 230V AC 50 Hz | 24V AC 50 Hz |
| Rating Max | 2 (1) A | |
| Outputs for actuators | 230V | 24V |
| Dimension [mm] | 300 x 86 x 63 | |

**24V supply**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Output voltage | 24V AC 50 Hz |
| Rated power | 80VA |
| Dimension [mm] | 81 x 90 x 68 |



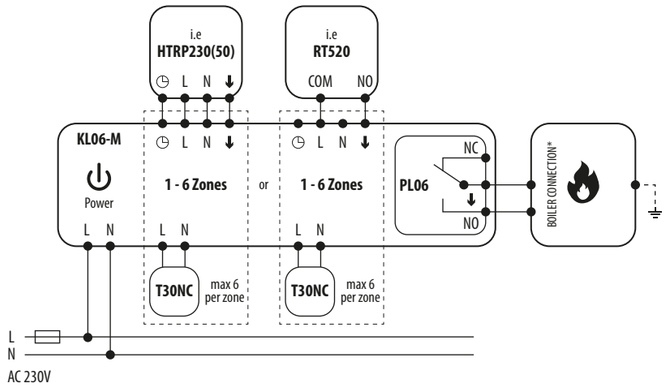

## KL06 + PL06

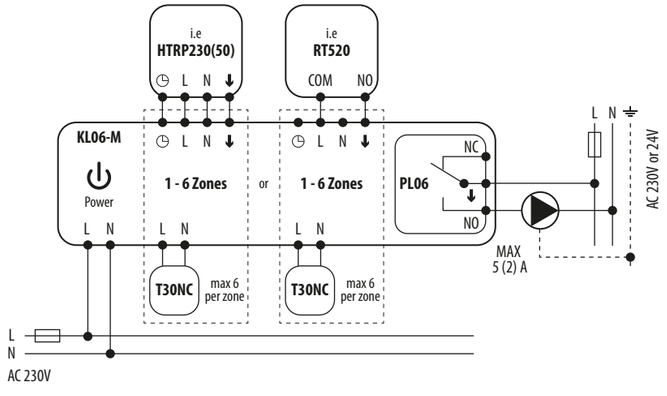
**Wiring centre**

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 2 (1) A |
| Outputs | UFH thermal actuators (230V) |
| Dimension [mm] | 300 x 86 x 63 |

**Module**

| | |
|---|---|
| Power supply | From KL06 wiring centre |
| Rating Max | 5 (2) A |
| Output signal | NO/COM/NC relay |
| Dimension [mm] | 60 x 80 x 20 |

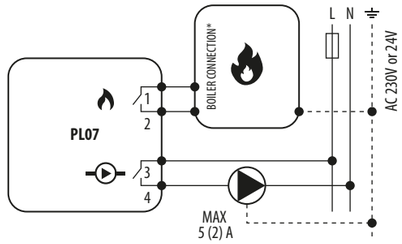




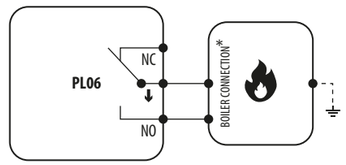

## PL07

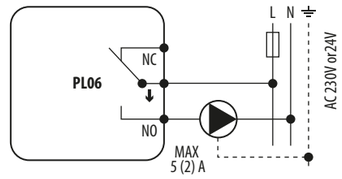
| | |
|---|---|
| Power supply | From KL06 wiring centre |
| Rating Max | 5 (2) A |
| Output signal | 2 x NO/COM relay |
| Dimension [mm] | 70 x 80 x 20 |




## PL06

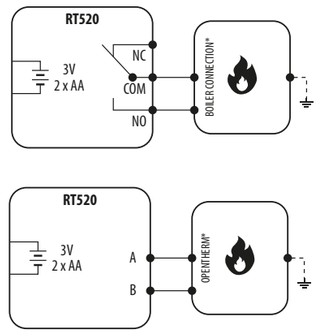
| | |
|---|---|
| Power supply | From KL06 wiring centre |
| Rating Max | 5 (2) A |
| Output signal | NO/COM/NC relay |
| Dimension [mm] | 60 x 80 x 20 |

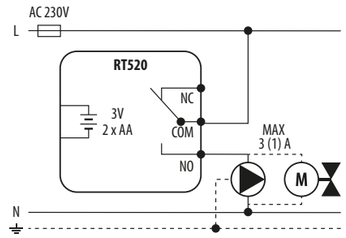



## RT520

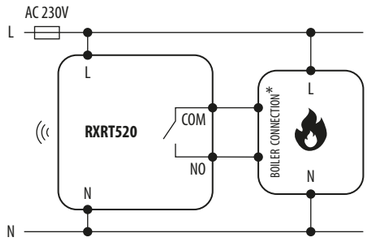
| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating Max | 3 (1) A |
| Output signal | OpenTherm or voltage free NC/COM/NO |
| Temperature range | 5 - 33.5°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 118 x 95 x 26 |

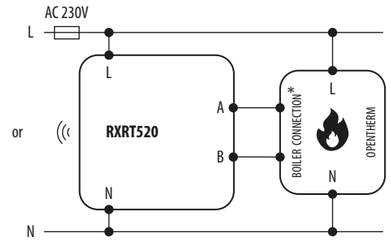


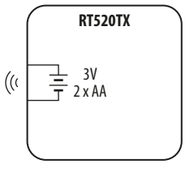




## RT520RF

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating Max | 16 (5) A |
| Output signal | OpenTherm or voltage free COM/NO |
| Temperature range | 5 - 33.0°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | Transmitter: 118 x 95 x 26<br>Receiver: 96 x 96 x 27 |



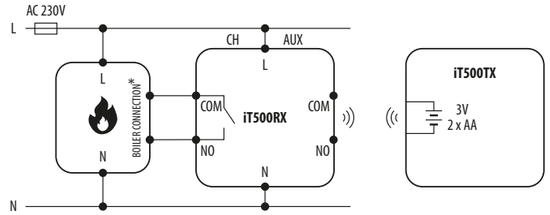



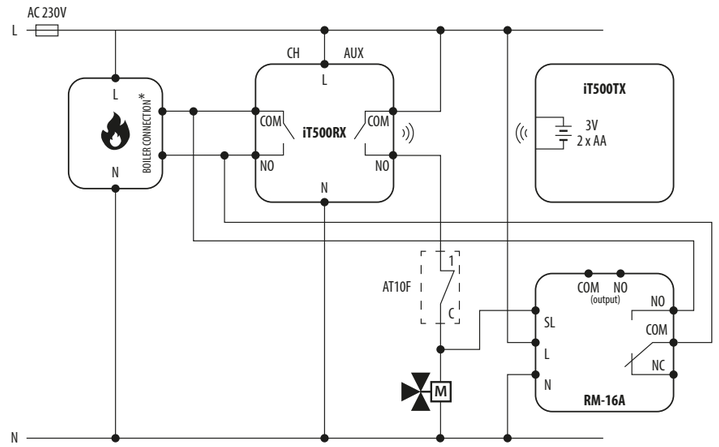
## iT500

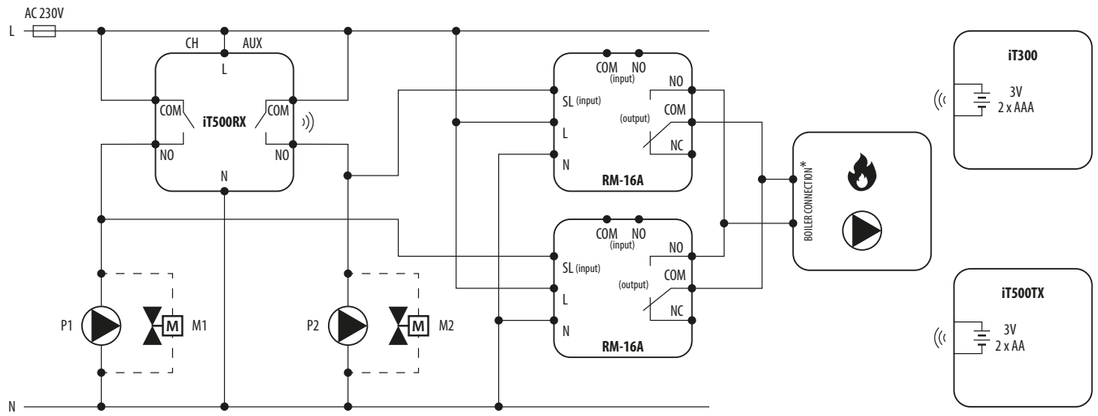
| | |
|---|---|
| Power supply | iT500TR: 2 x AA batteries<br>iTG500: 5V DC<br>iT500RX: 230V AC 50 Hz |
| Rating Max | CH1: 16 (5) A<br>CH2: 5 (3) A |
| Output | 2 x NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | iT500TR: 128 x 95 x 30<br>iTG500: 39 x 91 x 25, antenna: 70<br>iT500RX: 145 x 100 x 35 |

## xT500

| | |
|---|---|
| Power supply | iT500TR: 2 x AA batteries<br>iT500RX: 230V AC 50 Hz |
| Rating Max | CH1: 16 (5) A<br>CH2: 5 (3) A |
| Output | 2 x NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | iT500TR: 128 x 95 x 30<br>iT500RX: 145 x 100 x 35 |

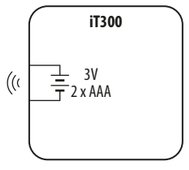



## iT300

| | |
|---|---|
| Power supply | 2 x AAA batteries |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 76 x 76 x 22 |




## RT310i / RT310iSPE / RT310iSR

### Transmitter

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0,5°C |
| Control algorithm | TPI or<br>Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 96 x 96 x 27 |

### iTG310

| | |
|---|---|
| Power supply | 5V DC |
| Port | 1 x 10/100 LAN port |
| Dimension [mm] | 39 x 91 x 25, antenna: 70 |

### RXRT510

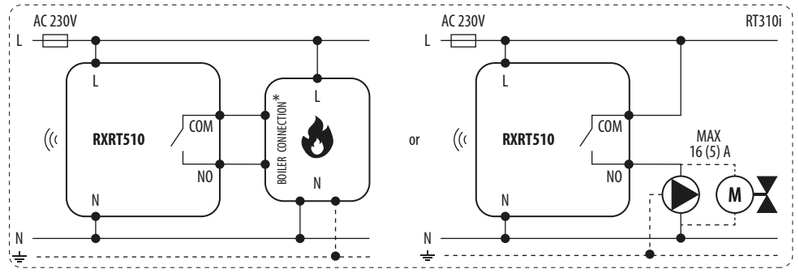
| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM relay |
| Dimension [mm] | 96 x 96 x 27 |

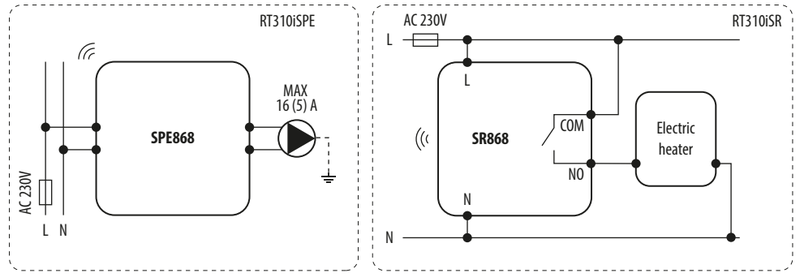
### SPE868

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | Schuko plug |
| Dimension [mm] | 42 x 77 x 42 |

### SR868

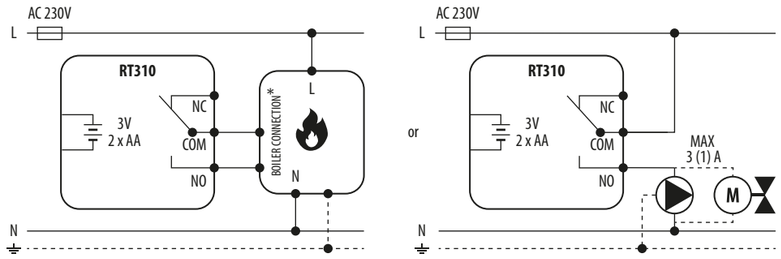
| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM relay |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 44 x 44 x 26 |



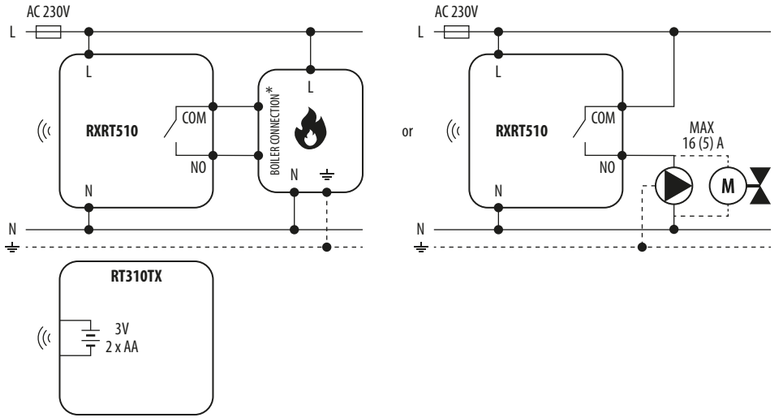

## RT310

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating Max | 3 (1) A |
| Output signal | NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Communication | Wired |
| Dimension [mm] | 96 x 96 x 27 |



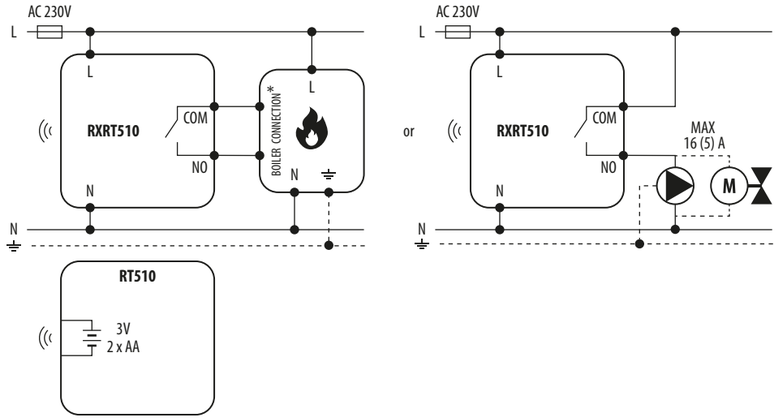
## RT310RF

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | RXRT510 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 96 x 96 x 27<br>receiver: 96 x 96 x 27 |



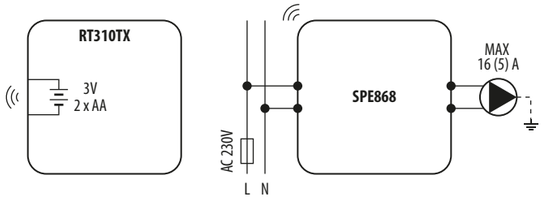

## RT510RF

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | RXRT510 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 120 x 96 x 27<br>receiver: 96 x 96 x 27 |



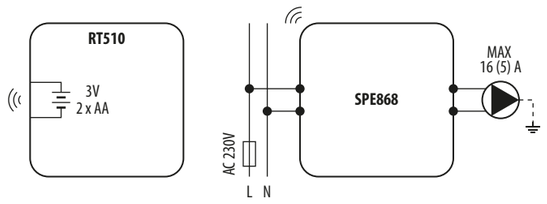

## RT510SPE

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | Schuko plug |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C lub 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | SPE868 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 120 x 96 x 27<br>receiver: 42 x 77 x 42 |



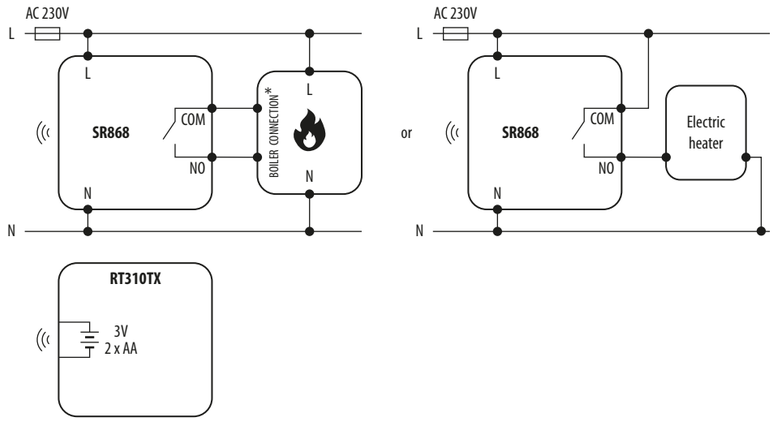

## RT510SPE

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | Schuko plug |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | SPE868 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 120 x 96 x 27<br>receiver: 42 x 77 x 42 |



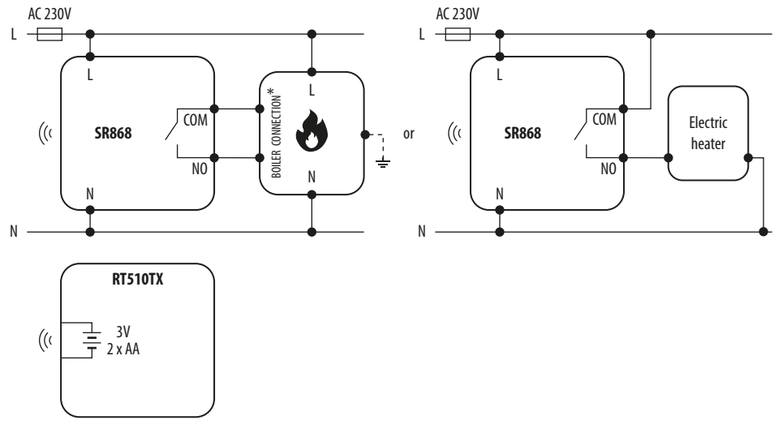

## RT510SR

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | SR868 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 120 x 96 x 27<br>receiver: 44 x 44 x 26 |



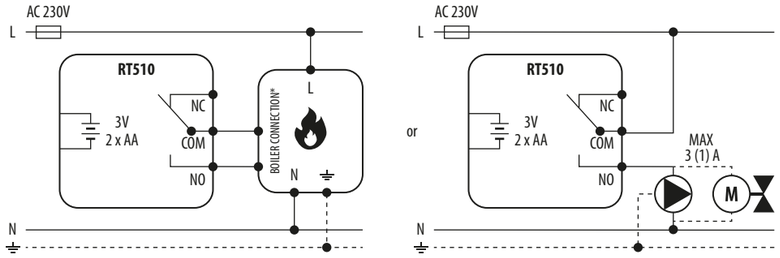

## RT510SR

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Receiver's model | SR868 |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 120 x 96 x 27<br>receiver: 44 x 44 x 26 |



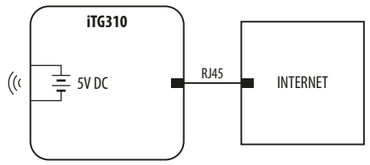

## RT510

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating Max | 3 (1) A |
| Output signal | NO/COM/NC relay |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.1°C or 0.5°C |
| Control algorithm | TPI or Hysteresis: ±0.25°C |
| Communication | Wired |
| Dimension [mm] | 120 x 96 x 27 |



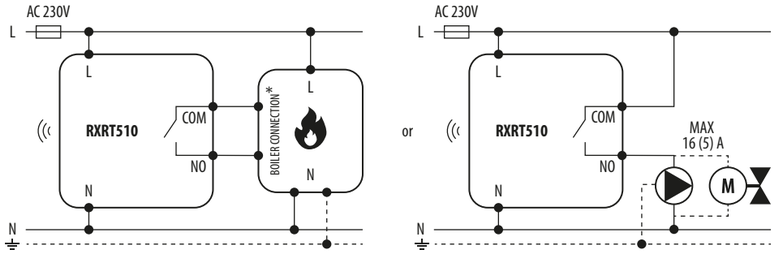

## iTG310

| | |
|---|---|
| Power supply | 5V DC |
| Port | 1 x 10/100 LAN port |
| Dimension [mm] | 39 x 91 x 25, antenna: 70 |



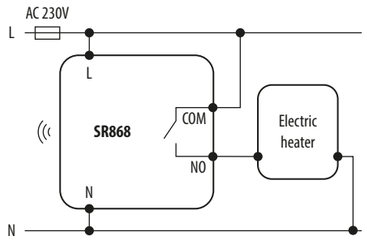
## RXRT510

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM relay |
| Dimension [mm] | 96 x 96 x 27 |



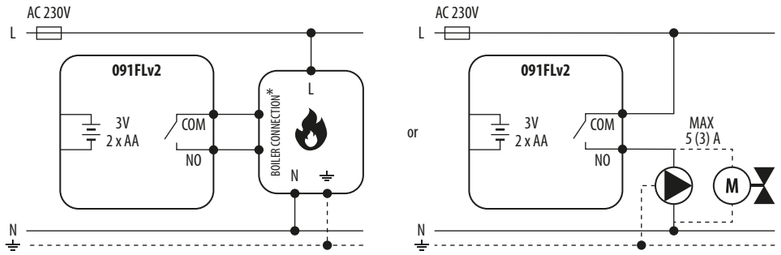

## SR868

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM relay |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 44 x 44 x 26 |



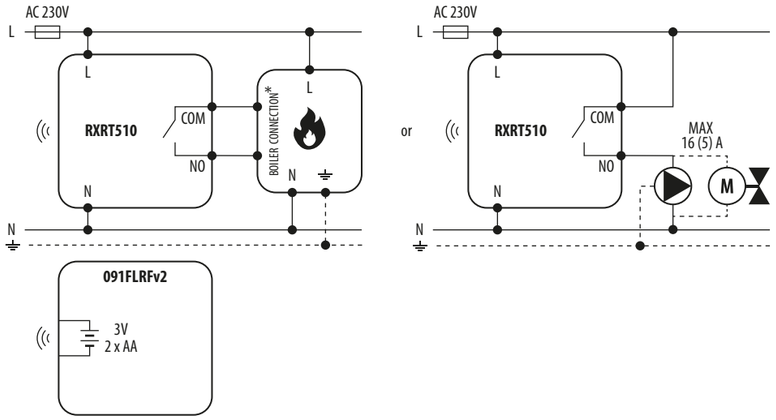

## 091FLv2

| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating Max | 5 (3) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 30°C |
| Display temperature accuracy | 0.2°C |
| Control algorithm | Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 154 x 80 x 30 |



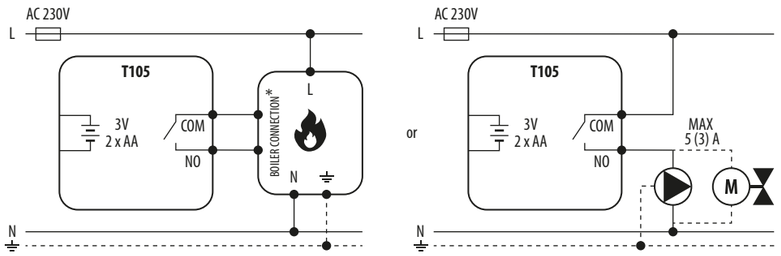

## 091FLRFv2

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 30°C |
| Display temperature accuracy | 0.2°C |
| Control algorithm | Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 154 x 80 x 30<br>receiver: 96 x 96 x 27 |




## T105

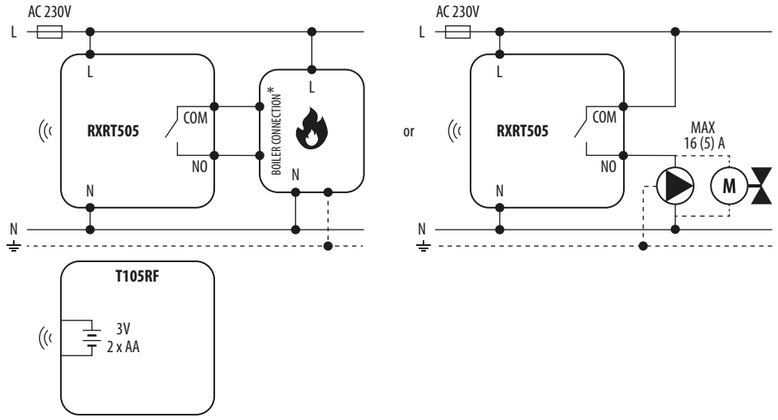
| | |
|---|---|
| Power supply | 2 x AA batteries |
| Rating Max | 5 (3) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 30°C |
| Display temperature accuracy | 0.2°C |
| Control algorithm | Hysteresis: ±0.4°C, ±0.8°C, ±1.4°C or ±1.8°C |
| Communication | Wired |
| Dimension [mm] | 96 x 117 x 22 |






## T105RF

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 30°C |
| Display temperature accuracy | 0.2°C |
| Control algorithm | Hysteresis: ±0.4°C, ±0.8°C, ±1.4°C or ±1.8°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 96 x 117 x 22<br>receiver: 129 x 97 x 35 |



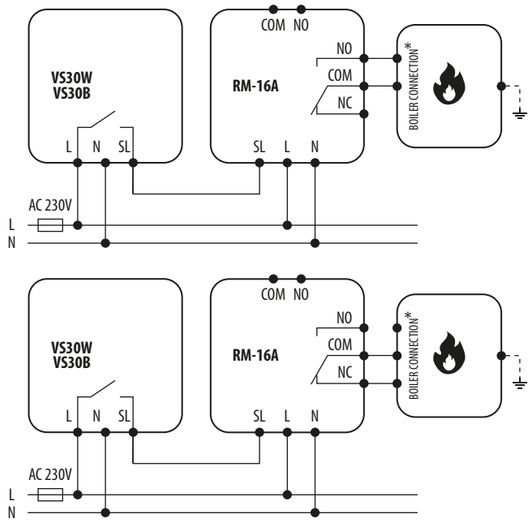

## VS30W+RM-16 A / VS30B+RM-16 A

### VS30

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Display temperature accuracy | 0.5°C |
| Control algorithm | PWM or Hysteresis: ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimension [mm] | 86 x 86 x 42 |

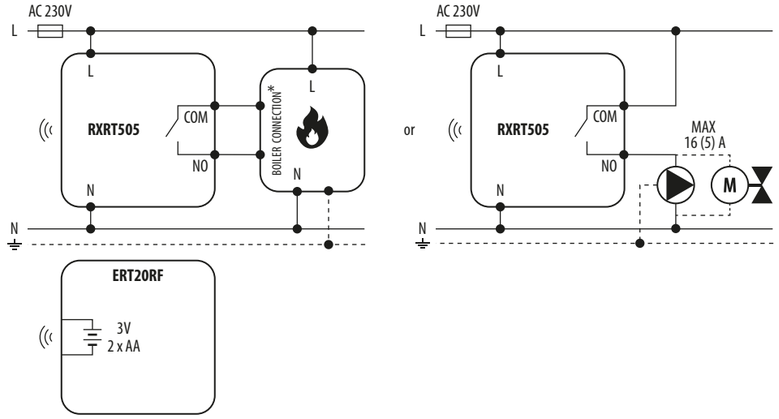
### RM-16A

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 A / 250V AC |
| Voltage-free NO/COM input | Connection of a thermostat with a NO / COM voltage-free relay |
| SL voltage input | Connection of a thermostat with a 230V AC output signal |
| Output signal | NO/COM/NC relay |
| Dimension [mm] | 47 x 47 x 20 |



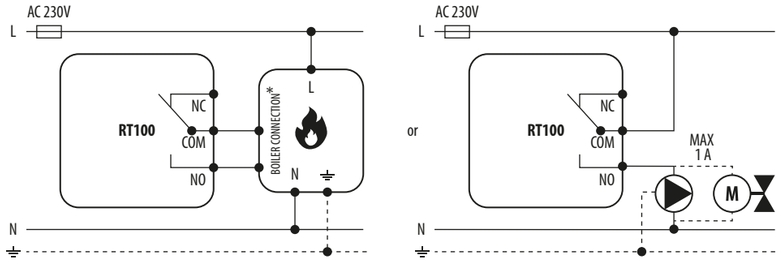

## ERT20RF

| | |
|---|---|
| Transmitter's power supply | 2 x AA batteries |
| Receiver's power supply | 230V AC 50 Hz |
| Rating Max | 16 (5) A |
| Output signal | NO/COM voltage-free relay |
| Temperature range | 5 - 32.5°C |
| Control algorithm | Hysteresis: ±0.5°C |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | transmitter: 80 x 80 x 30<br>receiver: 129 x 97 x 35 |



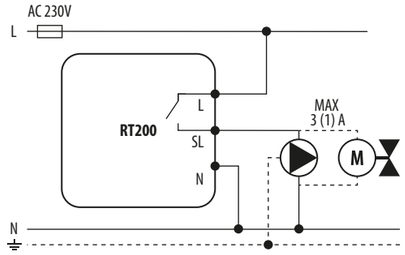

## RT100

| | |
|---|---|
| Rating Max | 1 A |
| Output signal | NO/COM/NC |
| Temperature range | 10 - 30°C |
| Communication | Wired |
| Dimension [mm] | 80 x 80 x 40 |



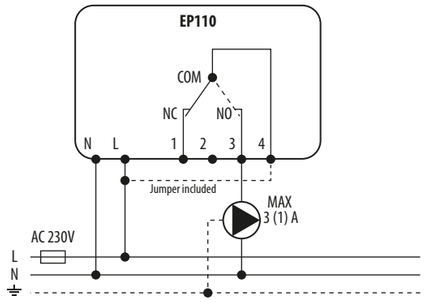
## RT200

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 (1) A |
| Output signal | 230V AC 50 Hz |
| Temperature range | 5 - 35°C |
| Control algorithm | Hysteresis: ±1°C |
| Communication | Wired |
| Dimension [mm] | 95 x 95 x 40 |



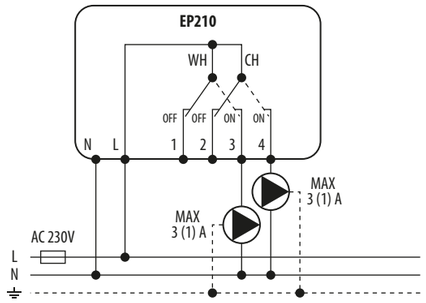

## EP110

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 (1) A |
| Output signal | NO/COM/NC voltage-free relay |
| Number of channels | 1 |
| Dimension [mm] | 120 x 98 x 27 |



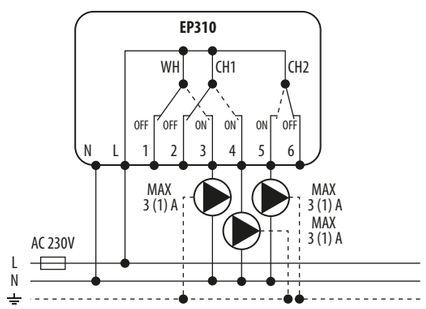

## EP210

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 (1) A |
| Output signal | 2 x SPDV 230V AC |
| Number of channels | 2 |
| Dimension [mm] | 120 x 98 x 27 |




## EP310

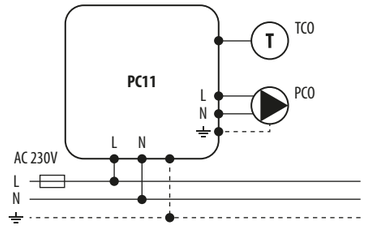
| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 (1) A |
| Output signal | 3 x SPDV 230V AC |
| Number of channels | 3 |
| Dimension [mm] | 120 x 98 x 27 |





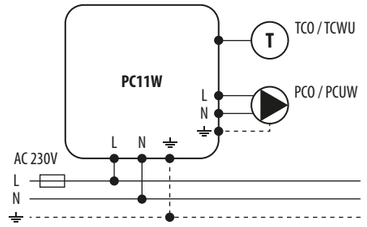

## PC11

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 6 A |
| Power consumption | 2 W |
| Temperature range | 5 - 80°C |
| Temperature measurement range | 0 - 99°C |
| Operating temperature | -10 - 50°C |
| Sensor wire length | 1.2 m |
| Dimension [mm] | 155 x 70 x 35 |



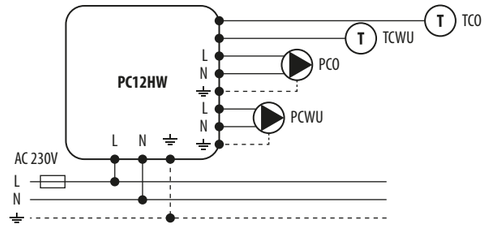

## PC11W

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 6 A |
| Power consumption | 2 W |
| Adjustable temperature range (ON) | 5 - 80°C |
| Adjustable temperature range (OFF) | 10 - 85°C |
| Temperature measurement range | 0 - 99°C |
| Operating temperature | -10 - 50°C |
| Sensor wire length | 1.2 m |
| Dimension [mm] | 155 x 70 x 35 |



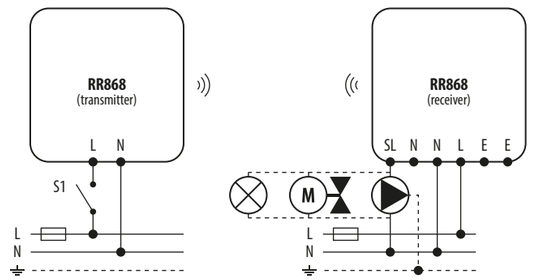

## PC12HW

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 6 A |
| Power consumption | 2 W |
| Temperature range | 5 - 80°C for CH<br>5 - 80°C for DHW |
| Temperature measurement range | 0 - 99°C |
| Operating temperature | -10 - 50°C |
| Sensor wire length | 1.2 m |
| Dimension [mm] | 155 x 70 x 35 |




## RR868

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 5 (3) A |
| Output signal | 230 V AC |
| Communication | Wireless, 868 Mhz |
| Dimension [mm] | 45 x 45 x 20 |
| Housing dimension [mm] | 84 x 84 x 28 |

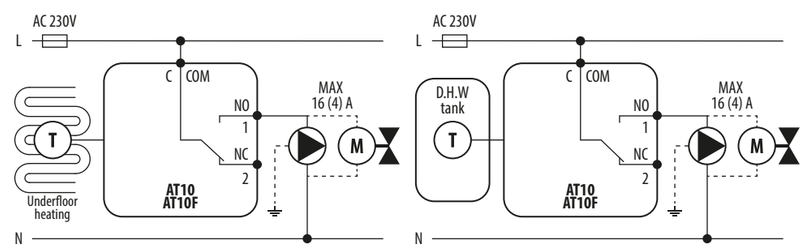



## AT10

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (4) A |
| Output signal | NO/COM/NC contacts |
| Temperature range | 30 - 90°C |
| Dimension [mm] | 105 x 45 x 50 |

## AT10F

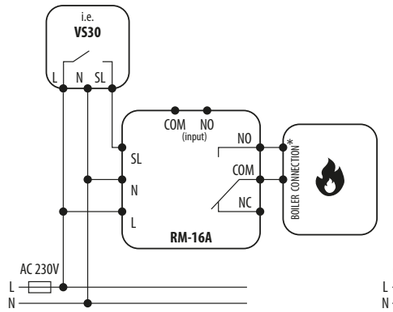
| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 (4) A |
| Output signal | NO/COM/NC contacts |
| Temperature range | 30 - 90°C |
| Dimension [mm] | 105 x 45 x 50<br>capillary length: 1200<br>Ø capillary: 7 |



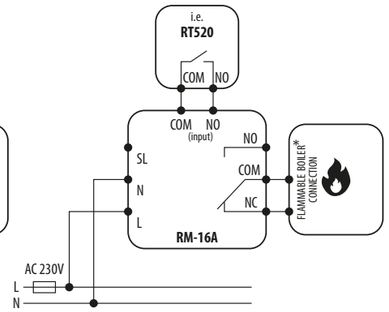

When T<Set Temperature – then C-1 Closed
When T>Set Temperature – then C-1 Opened

## RM-16A

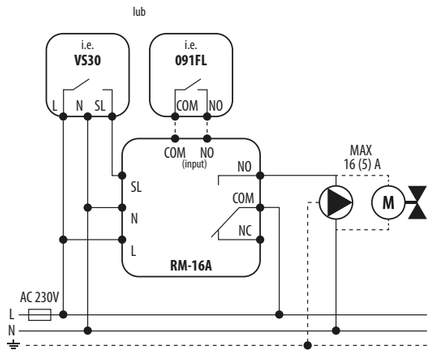
| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 16 A / 250V AC |
| NO/COM voltage-free input | Connection of a thermostat with a NO / COM voltage-free relay |
| SL voltage input | Connection of a thermostat with a 230V AC output signal |
| Output signal | NO/COM/NC relay |
| Dimension [mm] | 47 x 47 x 20 |



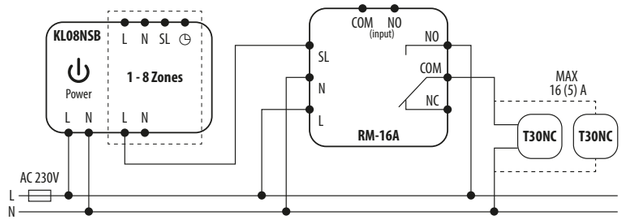

Connection of a 230 V AC voltage thermostat to a boiler (or other device) with an ON - OFF contact.




Connection of a battery thermostat to a solid fuel boiler controller (or other device) requiring NC / COM contact.




Connection of a 230 V AC voltage thermostat or battery thermostat to an electrical device with a higher power than the thermostat's relay allows.




Relief of the wiring centre with an increased number of actuators.

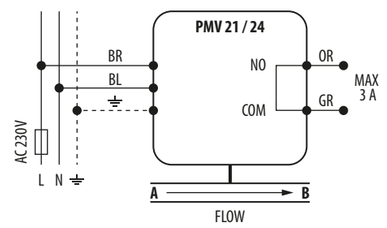
# LEGEND

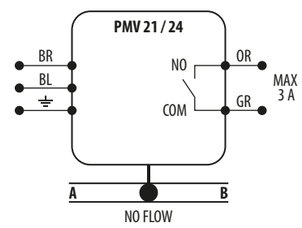
| | |
|---|---|
| | Battery powered |
| L, N | 230V AC power supply |
| | Fuse |
| COM, NO, NC | Voltage-free output |
| S, S1, S2 | Input terminals |
| SL | 230V AC voltage output |
| | Contact normally open NO |
| | Contact normally closed NC |
| | NC/COM/NO switch |
| | Boiler - Boiler connection * - Boiler's contacts for ON/ OFF thermostat (according to the boiler's instructions) |
| | Wireless communication |
| | Pump |
| M | Valve actuator |
| T | Temperature sensor |
| | 3-speed 230V AC fan |
| | Light bulb or other load |
| T30NC | Thermoelectric actuator |
| | Time programmer |
| | External normally open contact |
| | Transformer (voltage converter) |
| | Momentary switch, normally open NO |



## PMV21 / PMV24

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 A |
| Power consumption | 6 W |
| Output | NO/COM contacts |
| Fluid temperature range | 5°C - 88°C |
| Max static pressure | 8.6 bar |
| Differential pressure | 1" - 0.8 bar / 3/4" - 0.6 bar |
| Protection class | IP20 |
| Dimension [mm] | 87 x 55 x 60 |

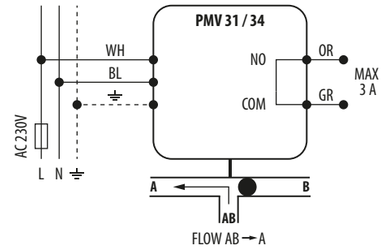


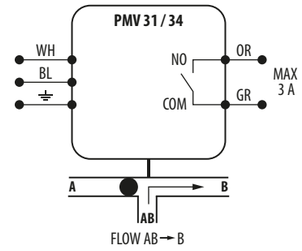




BR - brown wire
BL - blue wire
OR - orange wire
GR - green wire

## PMV31 / PMV34

| | |
|---|---|
| Power supply | 230V AC 50 Hz |
| Rating Max | 3 A |
| Power consumption | 6 W |
| Output | NO/COM contacts |
| Fluid temperature range | 5°C - 88°C |
| Max static pressure | 8.6 bar |
| Differential pressure | 1" - 0.8 bar / 3/4" - 0.6 bar |
| Protection class | IP20 |
| Dimension [mm] | 87 x 55 x 60 |

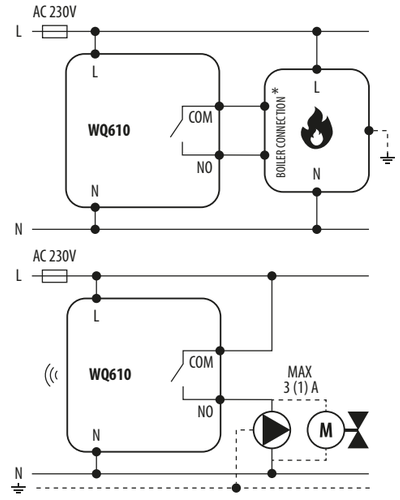


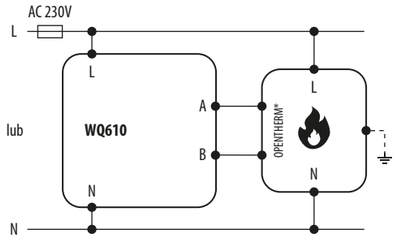




WH - white wire
BL - blue wire
OR - orange wire
GR - green wire

## WQ610

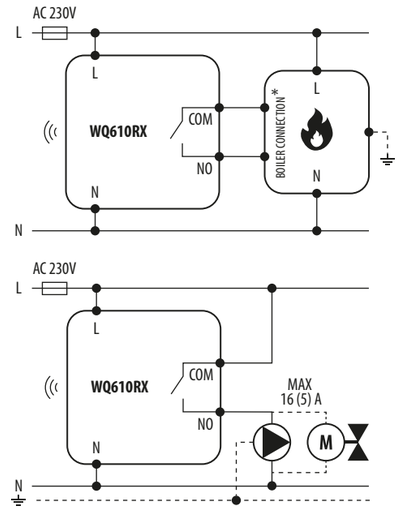
| | |
|---|---|
| Power supply | 230V AC 50Hz |
| Max load | 3(1)A |
| Output signal | OpenTherm or COM/NO relay |
| Temperature control range | 5 - 35°C |
| Accuracy of indication | 0.1°C or 0.5° |
| Control algorithms | ITLC or Hysteresis ±0.25°C or ±0.5°C |
| Communication | Wired |
| Dimensions [mm] | 86 x 86 x 28 |

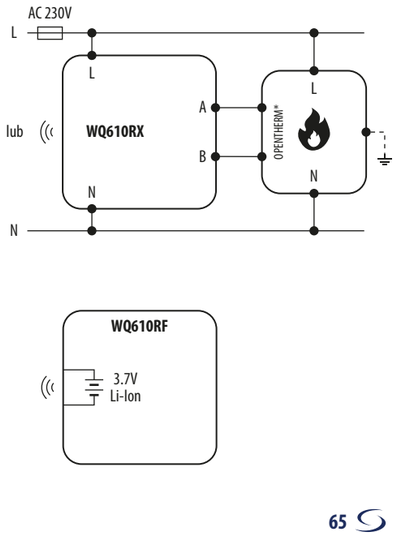



## WQ610RF

| | |
|---|---|
| Transmitter power supply | Built-in 3.7V Li-Ion battery |
| Power supply for the receiver | 230V AC 50Hz |
| Max load on the receiver | 16(5)A |
| Output signal | OpenTherm output signal or COM/ NO relay |
| Temperature control range | 5 - 35°C |
| Accuracy of indication | 0.1°C or 0.5°C |
| Control algorithms | ITLC or Hysteresis ±0.25°C or ±0.5°C |
| Wireless communication | 2.4 GHz |
| Dimensions [mm] Transmitter | 86 x 86 x 11 |
| Dimensions [mm] Receiver | 96 x 96 x 27 |



# NOTICE



# NOTICE

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