

## Pump controller for CH system PC11

815182899

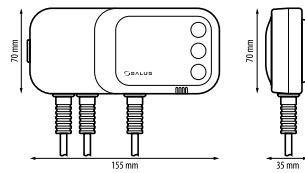


It is designed to control the water pump in the central heating circuit. The task of the device is to turn on the pump if the temperature exceeds the desired value and turn it on if the boiler cools down (due to shutting down). This prevents unnecessary pump operation and extends its life, which saves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



## Pipe / Cylinder thermostat AT10

615232890

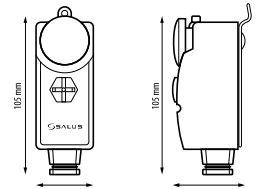


It has a knob with which you can easily change and control the temperature in the central heating circuit. It can be used to turn on circulation pumps, boiler or switching valves. Also used as a safety thermostat in underfloor heating to turn off the circulation pump when the feed water temperature is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



## Pump controller for CH or DHW system PC11W

815182898

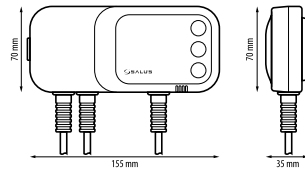


It is designed to control the water pump in the central heating and hot water circulation. It also works as a safety thermostat. It has the ability to turn on and off the pump. The pump will start after exceeding the temperature set by the user "C", and will turn off after exceeding the set off temperature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



## Pipe / Cylinder thermostat with capillary AT10F

615232891

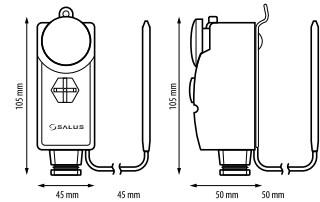


Mechanical thermostat for wall mounting, equipped with an external temperature sensor (capillary). It has a knob with which you can easily change and control the temperature in the DHW or CH circuit. It can be used to turn on circulation pumps, boiler or to activate zone or switching valves when loading 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 capillary length: 1200 Ø capillary: 7



## Pump controller for CH and DHW system PC12HW

815182897

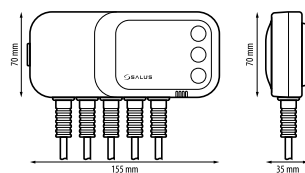


The controller turns on when the boiler temperature exceeds the user-set central heating pump activation temperature. The DHW pump works on the basis of a temperature difference. The DHW pump is switched on when the boiler temperature exceeds the tank temperature by the hysteresis set by the user. The 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 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



## Electronic, surface-mounted programmer, single-channel

### EP110

615232952

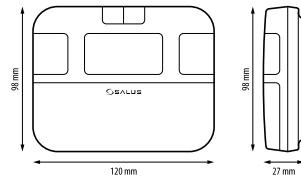


The single-channel surface-mounted programmer facilitates the operation of electrical devices (such as pumps or lighting) by setting their operating time (on and off). It has a display, which makes it even more useful.

#### 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



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

### WT100

515232703



#### In the set:

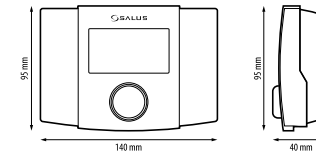
- outdoor temperature sensor (CT6-P) - 1 pcs.
- contact temperature sensor (CT10-X) - 2 pcs.

#### 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 T2- outside temperature T3- return temperature T4- boiler temperature TP- room thermostat input
Outputs	Heating circuit pump Mixing valve control output 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.



## Electronic, surface-mounted programmer, two-channel

### EP210

615232954

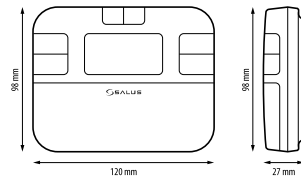


The two-channel surface-mounted programmer facilitates the operation of electrical devices (such as pumps or lighting) by setting their operating time (on and off). It has a display, which makes it even more useful.

#### Product advantages:

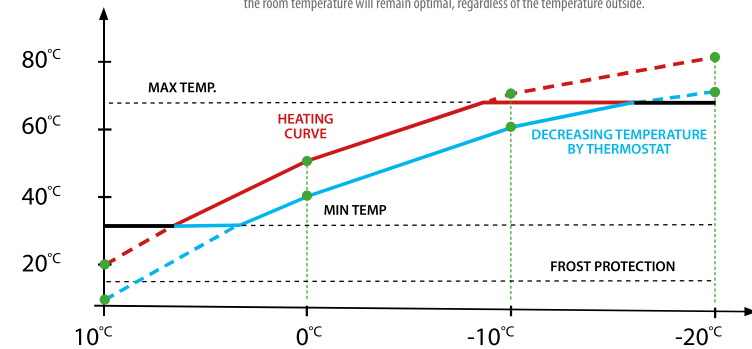
- can control two separate devices
- works on a daily or 5-2 (Mon-Fri + Sat-Sun) cycle
- allows separation of 3 time intervals (accuracy to the minute)
- maintains clock settings

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



## HEATING CURVE

SUPPLY TEMP. T1



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.

T2  
OUTSIDE TEMP

## Electronic, surface-mounted programmer, three-channel

### EP310

615232955

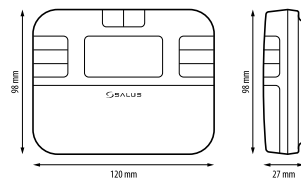


The three-channel surface-mounted programmer facilitates the operation of electrical devices (such as pumps or lighting) by setting their operating time (on and off). It has a display, which makes it even more useful.

#### 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



## 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 - 6V / 0.1 A (DC) 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.

