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Constant temperature controller

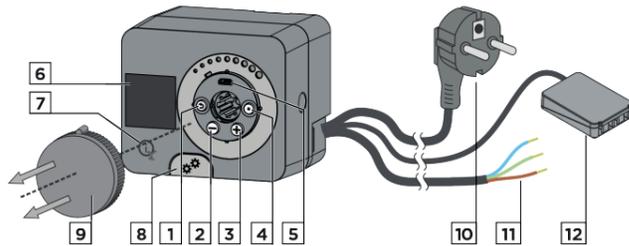
SMARTCONTROL PLUS

7797161



The smartcontrol plus is a compact weather-controlled heating controller built into the motor drive housing. It allows direct mounting on more than 20 mixing valves from different manufacturers. The controller can also be used in systems without an external sensor, but in this case the use of a room unit is mandatory.

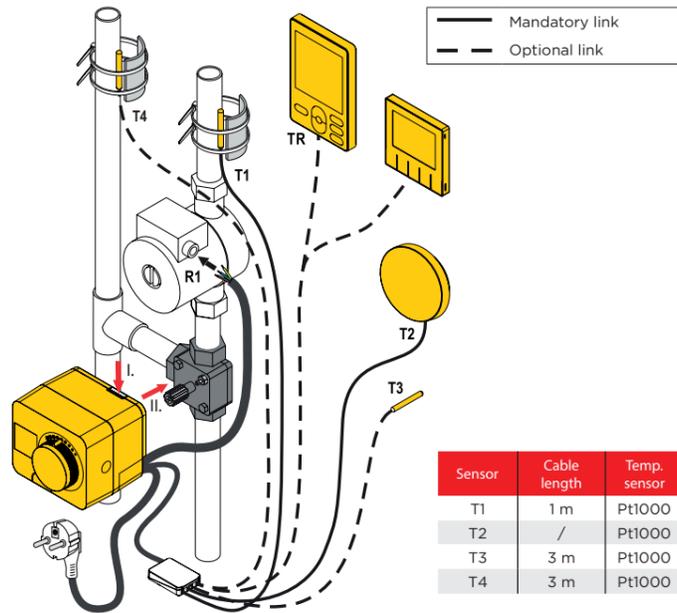
Appearance of the regulator



- key . Go back..
- key . Scroll , decreasing.
- key . Scroll right, zoom in.
- key . Enter menu, confirm selection.
- USB connection for software updates and connection to a PC.
- Graphic display.
- key . Help.
- Clutch for manual operation.
- Manual scroll button.
- Pre-wired power cable with plug.
- Pre-wired cable for the circulation pump.
- Pre-wired coupling bay for sensors and communication.

Installation of the regulator

The regulator is mounted directly on the mixing valve in an indoor dry room using the supplied accessories. Avoid close proximity to sources of strong electromagnetic fields.



Schema	Mixing valve position	Position of the scale
360	360b	
360	360b	
361		
361		

Hydraulic schemes

Diagram 360 - heating circuit

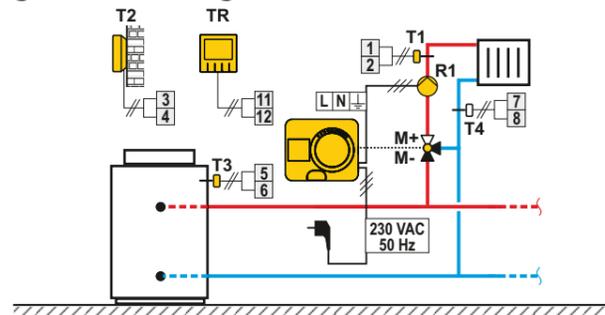


Diagram 360b - supplementary heating circuit

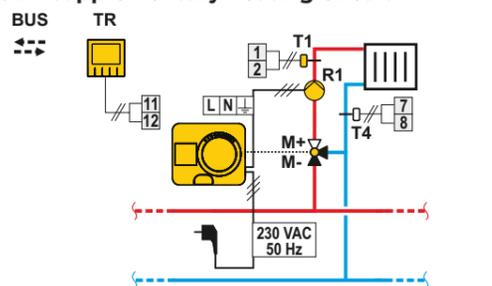
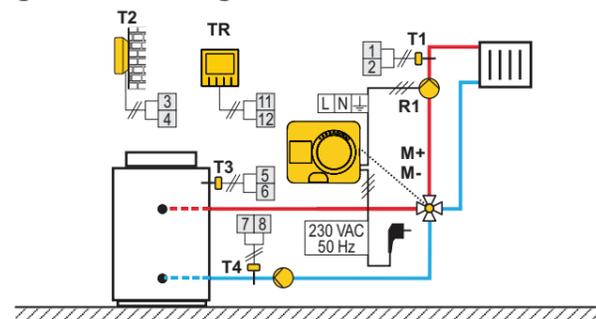


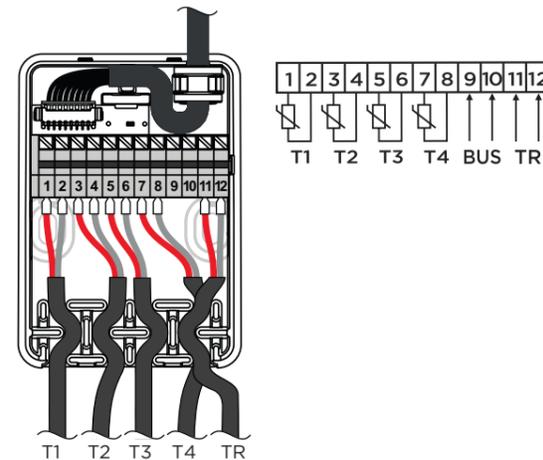
Diagram 361 - Heating circuit and return duct control



Electrical connection of the regulator

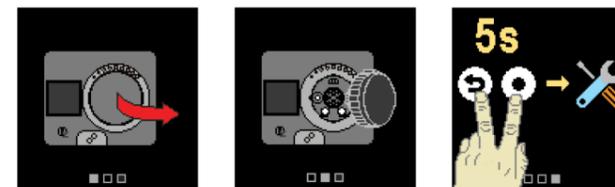
Connecting temperature sensors and room unit

The controller allows the connection of four Pt1000 temperature sensors (1 to 8). The function of the sensor depends on the hydraulic scheme and the settings of parameters S1.6 and S1.7. One room unit can be connected to one controller.



Setting the regulator at first start-up

The controller is equipped with the innovative "Easy start" function, which allows the initial set-up of the controller in just four steps. The first time the controller is connected to the mains, after displaying the program version and the logo, the controller guides you through the initial set-up with an animation on the screen. To do this, the manual scroll button must be removed. The Easy start function is activated by pressing and holding the and keys simultaneously for 5 seconds.



1. Step - language choice

Use and keys to select the language you want to use. Confirm the language by pressing .

If you have mistakenly selected the wrong language, you can go back to the language selection again by pressing the .

You can change the language later in the menu „Display“.

2. Step - Choosing a hydraulic scheme

Select the hydraulic scheme for the regulator operation. Scroll through the schemes using the and keys. Confirm the selected scheme using the key.

If you have mistakenly selected the wrong scheme, you can go back to re-select the scheme by pressing key.

The hydraulic scheme can be modified later with service parameter S1.1.

3. Step - adjusting the steepness of the heating curve

Set the slope of the heating curve. The slope is set using keys and . Confirm the slope using key . If the wrong slope has been set by mistake, go back to the slope selection again using key .



The steepness of the heating curve can be changed later using user parameter P2.1.

4. Step - selecting the direction of opening of the mixing

Select the direction of opening of the mixing valve. Scroll between the two directions using the keys and . Confirm the selected direction using the key . If the wrong direction has been selected by mistake, go back to the direction selection again using the key .

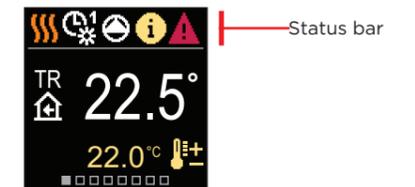


The direction of opening of the mixing valve can be changed later using service parameter S1.4.

Display on the screen

All the important information about the controller's operation can be seen in the 10 axis displays. You can scroll between the basic displays by pressing the **Status bar**

The operating mode, notifications and alerts are displayed in the top third of the screen.

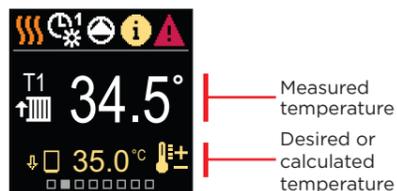


Symbol	Description
	Heating.
	Cooling.
	Operating on a timetable of 1 - day intervals. *
	Timed operation 1 - night interval. *
	Operation at the desired daily temperature.
	Operation at the desired night temperature.
	Off.
	Manual operation.
	The circulation pump is working.
	Turn the valve to the left.
	Turn the valve to the right.
	Manual intervention - the clutch is activated.
	PARTY mode of operation.
	ECO mode.
	Holiday mode of operation.
	Automatic switch-off of heating.
	Drying screen.
	Constant temperature operation.
	Boost heating.
	AUX function on input T4.

**Notice. If the maximum temperature is exceeded or a safety function is activated, the controller notifies us with yellow symbol on the display. If the maximum temperature is no longer exceeded or if the safety function has already been switched off, the grey symbol alerts us to the recent event. The list of alerts can be found in the "Information" menu.**

\* The number indicates the selected time programme

## Temperatures

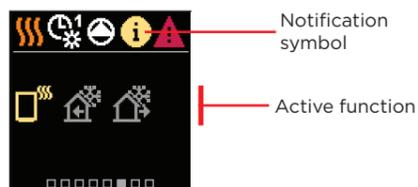


Measured temperature  
Desired or calculated temperature

Symbol	Description
	Calculated or desired temperature.
	Room temperature.
	Temperature of the rising water.
	Outside temperature.
	Return duct temperature.
	Source temperature.
T1, T2, T3, T4	Temperature measured with sensors T1, T2, T3 and T4.
TR	Temperature measured with a room sensor or room unit.
TA	Outdoor temperature obtained via BUS connection.
TQ	Source temperature obtained via BUS connection.
Error	Temperature sensor error.
---	The temperature sensor is not connected.
	Limiting the temperature of the heating circuit because the heat source does not reach the minimum temperature.
	Limiting the temperature of the heating circuit due to exceeding the maximum differential between the riser and return line or exceeding the maximum output of the heating circuit.
	Temperature limiting of the heating circuit in the ED control.
	Stopping the heating circuit to take advantage of domestic hot heating.

## Safety features

The following figure shows the status of the buffer functions. When a safeguard function is active, the corresponding symbol turns yellow. The notification symbol in the status bar also yellow.

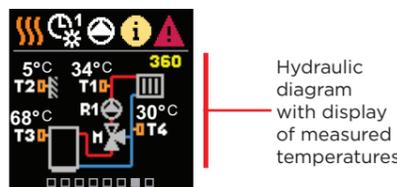


Notification symbol  
Active function

Symbol	Description
	Heat overheating protection.
	Protection against freezing due to low room temp.
	Protection against freezing due to low ambient temp.

## Hydraulic diagram

The diagram shows the selected hydraulic scheme with the measured temperatures.



Hydraulic diagram with display of measured temperatures

## Time and date

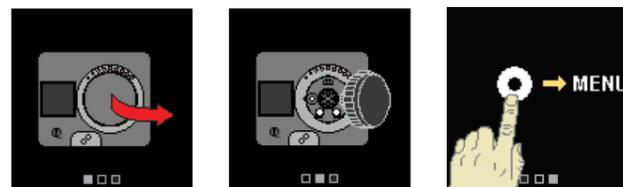
The display shows the day of the week, the current time and the date.



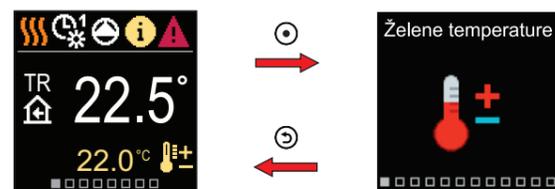
Date and time

## Help

Pressing key brings up an animation on the display, which leads you to the menu for additional settings.



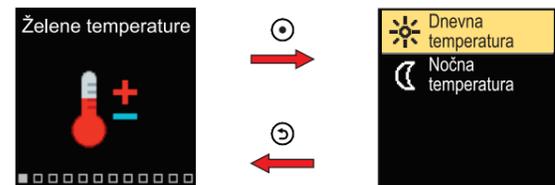
## Entering and navigating the menu



To enter the menu, press the key. Use the and keys to navigate the menu, confirm your selection by pressing key. Press the key to return to the previous screen.

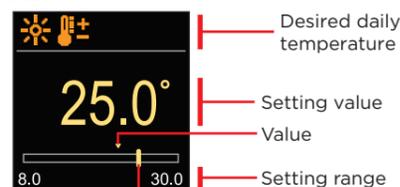
## Desired temperatures

The menu allows you to change the setting of the desired temperatures.



Use the and keys to scroll through the menu and the key to confirm your selection. This will open the screen for setting the desired temperature.

## Desired daily temperature

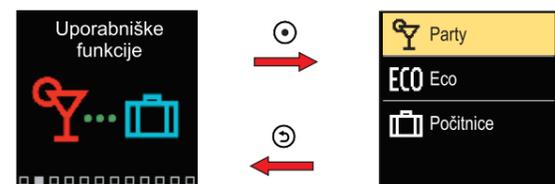


Current value of the desired temperature

Use and keys to set the desired temperature and to confirm it. Exit the setting with the key.

## User functions

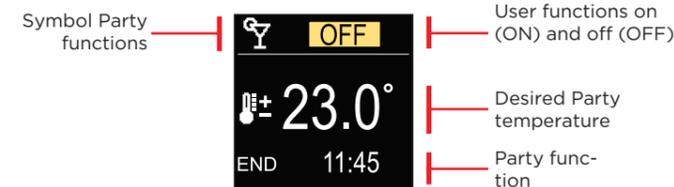
User functions provide additional convenience and benefits when using the controller.



Use the and keys to scroll through the menu and the key to confirm your selection. This will open the screen for switching on and setting up the user function.

## Party user function

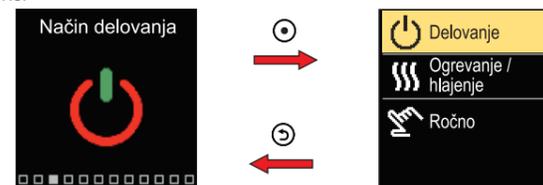
The Party function allows us to switch on the operation at the desired comfort temperature until a set expiry time.



Use and keys to change the value of a setting, and the key to move to the next setting.

## Mode of operation

Select the desired mode of operation from the menu, as well as other operating options.



Use the and keys to scroll through the menu and the key to confirm your selection.

## Choice of action

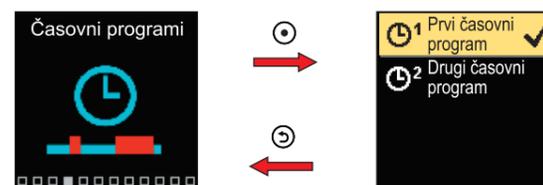


With the keys and to select the desired action. To leave the setup, press or key.

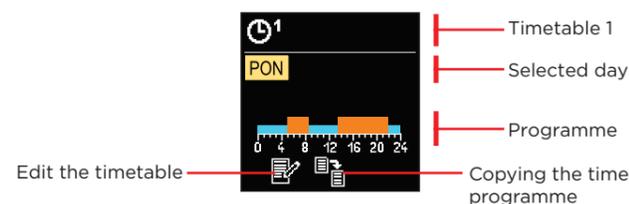
Symbol	Description
	Operation is timed to the desired day and night temperature.
	Operation is based on the desired daily temperature.
	Operation is based on the desired night temperature.
	Off. If the "heating" operating mode is selected, the frost protection remains active. If the 'cooling' operating mode is selected, the overheating protection remains active.

## Time programmes

The weekly time programme allows us to automatically switch between the desired day and night temperature. Two time programmes are available. The tick next to the time programme tells which time programme is selected for operation.



The menu is navigated using the and key. With key first selects the time programme to run, then the key enters the setting of the selected time programme.



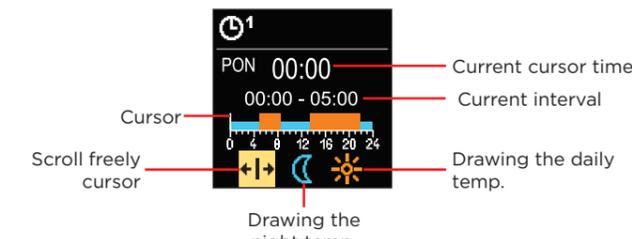
Edit the timetable

Select the day for which you want to edit or copy the timetable with keys and and confirm with key . Now select the icon for editing or copying the time programme with the and keys and confirm this selection with the key.

Initial settings for time programmes:

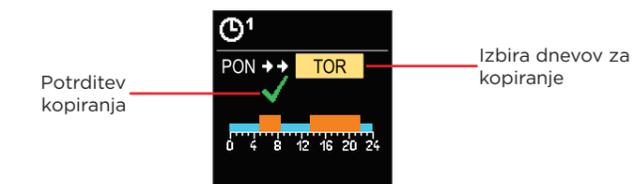
	MON. - FRI.	05:00 - 07:30 and 13:30 - 22:00
	SAT. - SUN.	07:00 - 22:00
	MON. - FRI.	06:00 - 22:00
	SAT. - SUN.	07:00 - 23:00

## Edit the timetable



Use key to select the desired icon to scroll or draw the interval, and keys and to draw the desired time interval. To exit the timer editing, press key .

## Kopiranje časovnega programa



Use keys and to select the day or group of days to which you want to copy the timetable of the displayed day. Press to confirm the copying of the timetable. Exit the timetable copying by pressing the .

## Clutch and manual valve advancement

Press clutch I. to activate the manual valve advancement. Now you can move the mixing valve by turning the knob II. To return to automatic operation, press clutch I again. When the clutch is activated, the clutch symbol appears on the display.



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