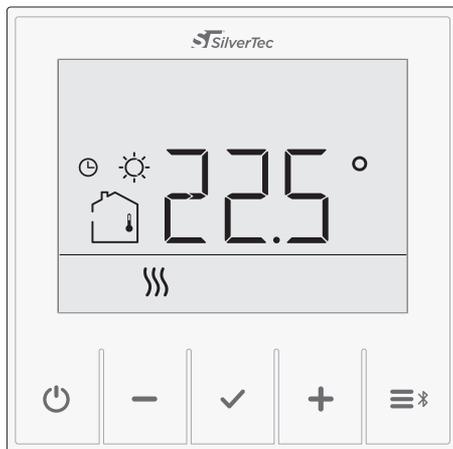


User manual and installation instructions

---

## KMS-remote





The OEG room unit allows you to efficiently and economically heat or cool your rooms. With a simple user interface, you can easily set the temperature you want or include any of the user functions for a comfortable temperature, saving mode or holiday mode.

For proper and economical use always set the actual requested temperature. Setting a higher or lower temperature will not accelerate the heating or cooling of the rooms. The speed of heating or cooling of rooms depends on the heating system and the construction of your building.

OEG smart room units can also be connected to the Heating@home platform, which allows you to perform all settings with the Heating@home mobile app.

Please read these instructions carefully before using the product and store them for future reference.

## Warnings

---



*Use of this device for any purpose other than that described in these instructions is not permitted and excludes any liability for damages and warranty.*

---

The same applies to any modification or tampering with the device.

Do not disassemble the device! The device does not contain any components that are serviceable by the user. In the event of an error, return the device to the seller or contact an authorised service centre.

The power supply must be switched off when installing the room unit!

The room unit must be installed by a qualified person!

All safety regulations must be observed during installation!

Charging of the built-in battery is allowed only with standard household chargers.

The use of incompatible chargers can lead to fire and cause burns.

After charging the battery, disconnect the charger. Permanent connection to the charger is not permitted.

This device is not a toy; do not allow children to play with it. Also, do not leave the packaging accessible to children as it may present a choking hazard.

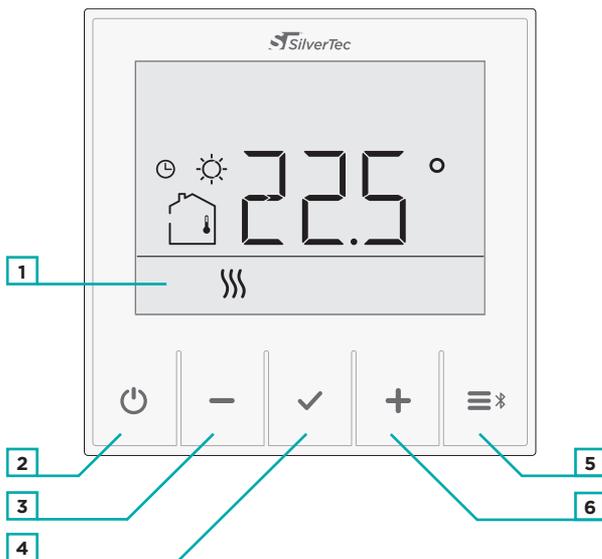
The device can be used by children of 8 and above under the supervision of their parents.

This device may only be used indoors and must be protected from moisture, dust, and from direct sunlight or other heat radiation.

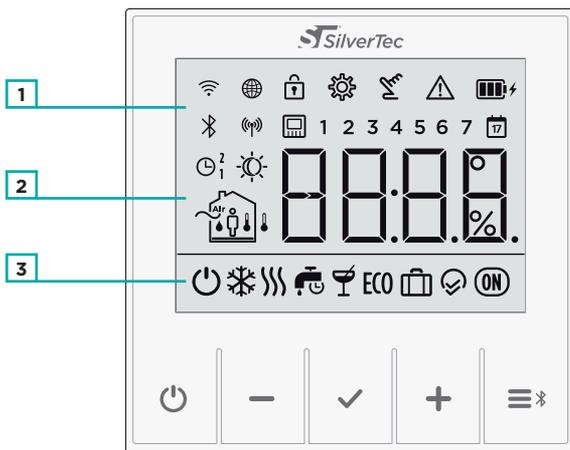
---



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- 1 LCD display with backlight.
- 2 Button  for On/Off.
- 3 Button  for reducing a setting or moving backwards.
- 4 Button  for reviewing data and entering settings.
- 5 Button  for increasing a setting or moving forwards.
- 6 Button  for user functions and connecting to smart device.



- 1** Symbols to display condition and status.
- 2** Display of temperatures and other climate data in the room.
- 3** Operating mode display.

## Event display symbols



Bluetooth connection to the smart device is established.



Bluetooth connection to the smart device is being established.



Settings menu.



Controller malfunction.



Locked buttons.



Manual operation of the controller.

In the settings menu, this means that the parameter value is changed.



1 2 Room unit name  
(1-first, 2-second)

## Symbols for displaying measured and requested temperature and other information



Measured outdoor temperature.



Measured room temperature.



Measured temperature of the auxiliary sensor.



Requested day temperature.



Requested night temperature.



Requested temperature of protection against freezing or overheating.

## Symbols for displaying day of the week and state of time programmes

- 1 Monday,
- 2 Tuesday,
- 3 Wednesday,
- 4 Thursday,
- 5 Friday,
- 6 Saturday,
- 7 Sunday.



The time when the Party or Eco function expires.



Date when the Holiday function expires.



Operation according to the time program - day interval.<sup>1</sup>



Operation according to the time program - night interval.<sup>1</sup>

<sup>1</sup> The number next to the symbol indicates whether it is the first or second heating circuit.

## Symbols for operation mode indication



Switched-off room heating or cooling. Frost or overheating protection activated.

---



Automatic shutdown of heating - summer operation.

---



Room heating.

---



Room cooling.

---



Domestic hot water heating according to the time programme.

---



Domestic hot water heating - permanent activation

---



Party function is active.

---



Eco function is active.

---



Holiday function is active.

---



Fireplace function is active.

---



Function for one-time domestic hot water heating is active.

---

In addition to room temperature, the room unit measures and displays other information about its operation.

We can browse data by pressing the ✓ button.

---

*What information can be displayed depends on the type of the room unit and the setting of parameters from P1.10 to P1.17.*



*With parameter P1.18, we can set that the basic display automatically displays the requested number of other information that we selected for viewing information next to the measured room temperature Information is switched on 3-second intervals.*

---

## CHANGING THE SETTINGS



The value of any setting can be changed while it flashes. The instruction manual shows this with dashes.

The value will begin to flash when pressing the + or - button for the first time. In the menu, the value starts flashing when it is selected with the ✓ button.



*Each setting is confirmed by pressing the ✓ button.*

*By pressing the ⏻ button you return to the basic display.*

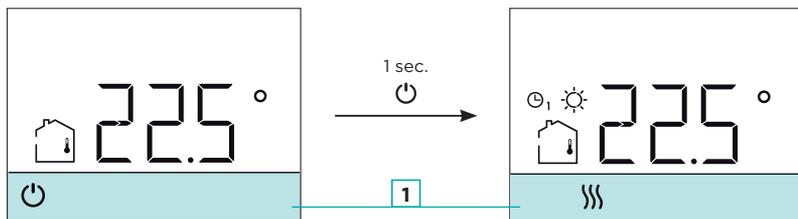
*If no button is pressed for 15 seconds, you automatically return to the home screen.*

---

# SWITCHING ON, OFF AND SELECTING THE OPERATING MODE

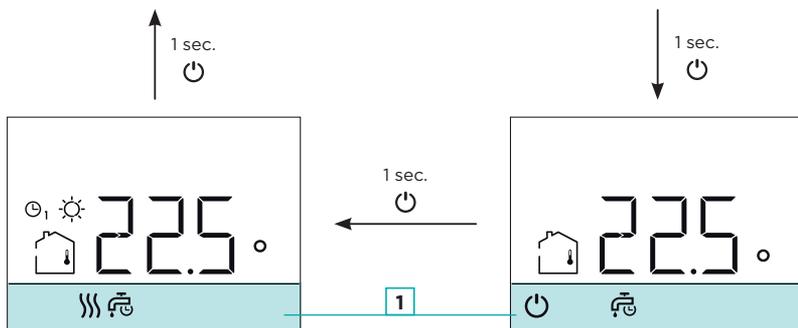
## Operation mode selection

Press the  button for 1 second to switch between the possible operating modes.



*Switched off. Frost or overheating protection remains active.*

*Heating or cooling is active.*



*\* Heating or cooling of rooms and heating of domestic hot water according to the time programme is active.*

*\* Domestic hot water heating according to the time programme and frost or overheating protection is active.*

*\* Domestic hot water heating is not available with all controllers.*

Symbols for operation mode indication.

 Switching on heating.

 Switching on cooling.

 Switching off.

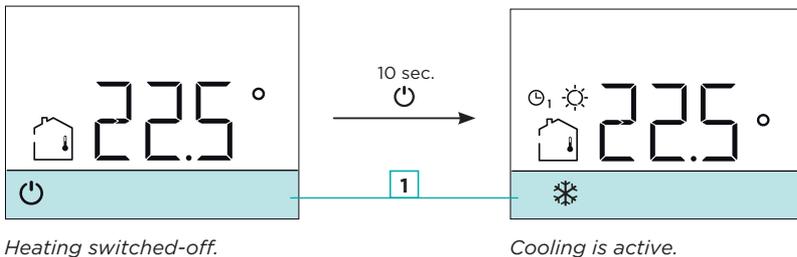
 Switching on domestic water according to the time programme.

# SWITCHING ON, OFF AND SELECTING THE OPERATING MODE

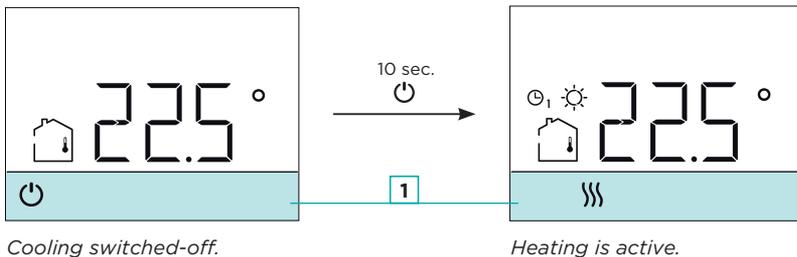
## Switching between heating and cooling

Hold the  button for 10 seconds to switch between heating and cooling mode. Switching is only possible if the room unit operating mode is switched-off.

### Switching from heating to cooling.



### Switching from cooling to heating.

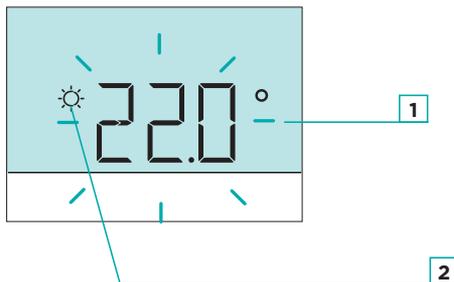


**1** Symbols for operation mode indication.

 Heating switched on.

 Cooling switched on.

## Setting the requested day and night temperature



By pressing the **+** or **-** button, you activate the requested temperature setting. The current active temperature (day or night) starts flashing. With further presses of the **+** or **-** button, you change the value of the requested temperature.

By pressing the **⏻** button, you complete the setting. However, by pressing the **✓** button, you move to the setting of the second requested temperature.

**1**  The value is flashing.

**2**  Temperature symbol.

 Day temperature.

 Night temperature.



*Setting the requested day and night temperature is enabled only when heating is active and the Party, Eco, or Holiday functions are not active.*

## Setting the temperature for frost protection

Even when the controller is switched off , it activates heating and adjusts the temperature to the value set for frost protection, or activates cooling and maintains the temperature at 34 °C.



The temperature for frost protection can be set when the controller is switched off.

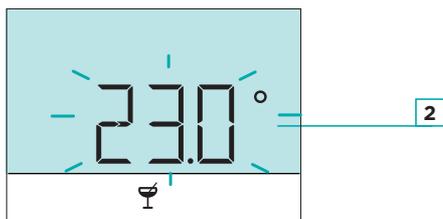
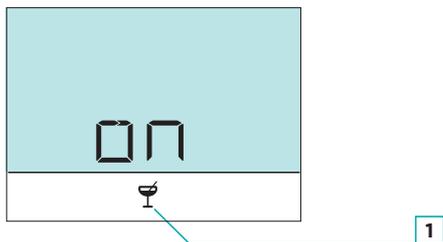
By pressing the **+** and **-** buttons, the requested room temperature for frost protection is displayed.

If the **✓** button is now pressed and held for at least 2 seconds, the setting value starts flashing and can be changed with the **+** and **-** buttons.

By pressing the  or **✓** button, you confirm the setting and return to the basic display.

## Party function

Party function enables to switched on operation according to the requested comfort temperature at any time.



By pressing the  button, you select the requested function  and confirm it with the  button.

By pressing the  and  buttons, you can change the requested comfort temperature.

By pressing the  button, you move to time setting.

Buttons  and  are used to set the time when the Party function should stop. By pressing the  button again, you return to the basic display.

When the Party function is on, we can check or change settings by pressing button  or .

The Party function can be switched off before the time has expired by pressing the  button again and selecting the Party function.

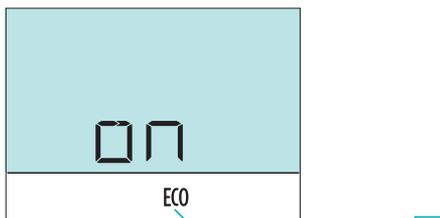
**1** Party function is selected.

**2** Requested comfort or Party temperature.

**3** Time when Party function expires.

## Eco function

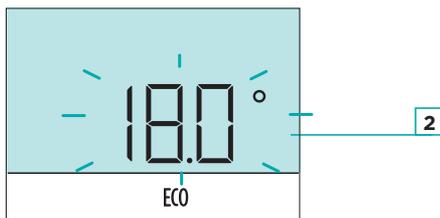
The Eco function enables you to switch on operations at the requested saving temperature at any time.



By pressing the **≡\*** button, you select the requested function **ECO** and confirm it with the **✓** button.

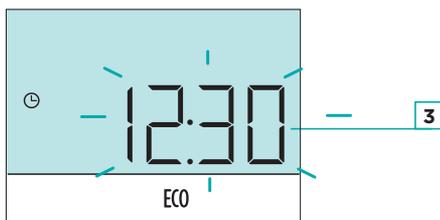
By pressing the **+** and **-** buttons, you can change the requested saving temperature.

By pressing the **✓** button, you move to time setting.



Buttons **+** and **-** are used to set the time when the ECO function should stop. By pressing the **✓** button again, you return to the basic display.

When Eco function is on, we can check or change settings by pressing button **+** or **-**.



ECO function can be switched off before the time has expired by pressing the **≡\*** button again and selecting the Party function.

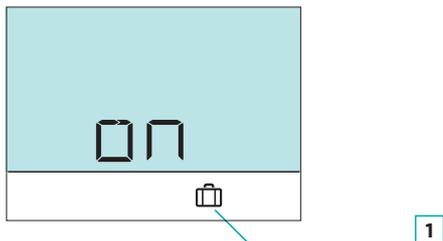
**1** ECO function is selected.

**2** Requested saving or Eco temperature

**3** Time when ECO function expires.

## Holiday function

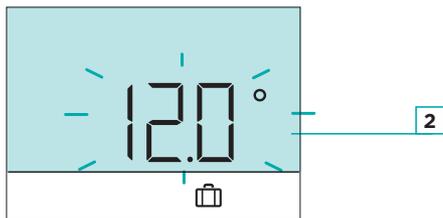
Vacation function enables activation of heating according to the requested saving temperature until a specific date at any time.



By pressing the  button, you select the requested function  and confirm it with the  button.

By pressing the  and  buttons, you can change the requested saving temperature.

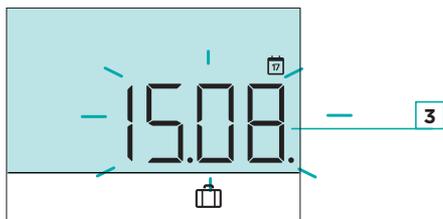
By pressing the  button, you move to date setting.



Buttons  and  are used to set the date when the Holiday function should stop. By pressing the  button again, you return to the basic display.

When the Holiday function is on, we can check or change settings by pressing button  or .

The Holiday function can be switched off before the time has expired by pressing the  button again and selecting the Holiday function.



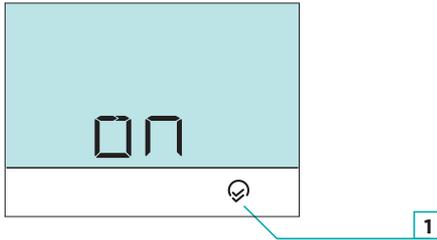
**1** The Holiday function is selected.

**2** Requested Holiday temperature.

**3** Date when Holiday function expires.

## Fireplace function

The Fireplace function disables the influence of the measured room temperature for a certain duration.



By pressing the  button, you select the requested function  and confirm it with the  button.

The Fireplace function can be switched off before the time has expired by pressing the  button again and selecting the Fireplace function.

---

**i** *Duration of Fireplace function is set with parameter P2.12.*

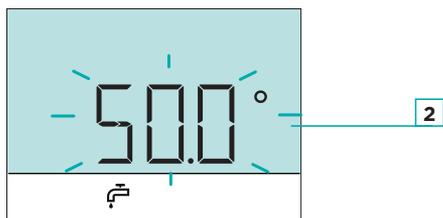
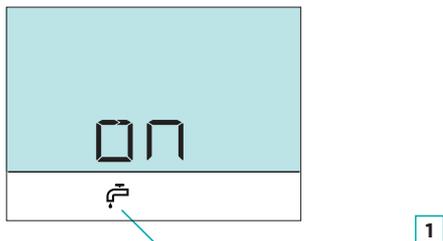
---

**1** The Fireplace function is selected.

---

## Domestic hot water function

Function enables to switch on one-time d.h.w. heating to the requested temperature. The function is automatically switched off when domestic hot water is warm or after one hour.



By pressing the  button, you select the requested function  and confirm it with the .

Buttons  and  are used to change the setting of the requested temperature of domestic water. By pressing the  button again, you return to the basic display.

The function of one-time domestic water heating can be switched off before the time has expired by pressing the  button again and selecting the function.

**1** Function of one-time domestic water heating is selected.

**2** Requested domestic water temperature.

You enter the menu by pressing the ✓ button for 2 seconds.  
All data and settings are grouped into **four sub-menus**:

-  Room unit information,
-  User settings - first group,
-  User settings - second group,
-  Service settings.

Use the + and - buttons to move between submenus.  
By pressing the ✓ button again, you enter the selected submenu.

---

**i** *Service settings are factory-locked.  
See "Service settings S1" to access service settings.*

---

# ADDITIONAL AND SERVICE SETTINGS

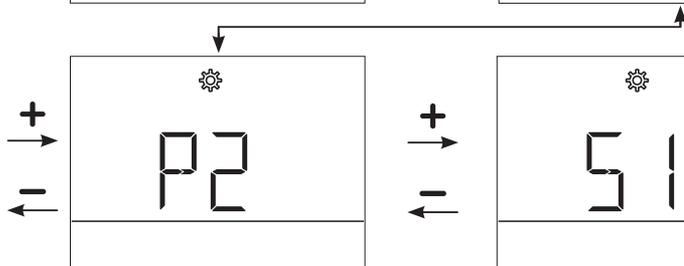
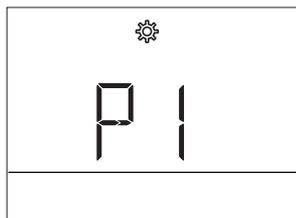
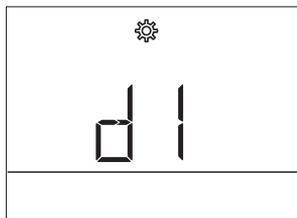
## Basic display



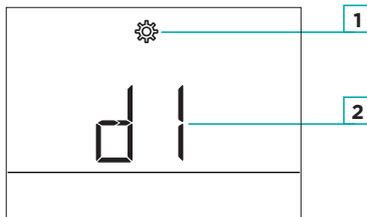
Enter menu  
✓ 2 sec.



Exit menu



Submenu **d1** contains data describing the room unit type and software version, as well as the error code if present.



When you enter the submenu d1, you can browse the data with the **+** and **-** buttons.

- 1** Settings menu.
- 2** Setting or parameter indication.

Submenu d1 contains the following information:

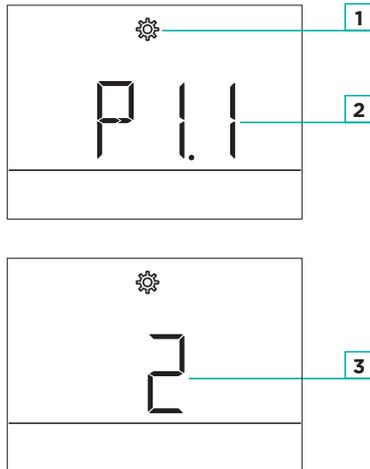
No.	Description
d1.1	ROOM UNIT MODEL
d1.2	ROOM UNIT SOFTWARE VERSION
d1.3	CONTROLLER TYPE CONNECTED TO ROOM UNIT KMS-D = 0 KMS-D+ = 1 KSF-D = 10 KSF-D+ = 11 WHMS = 92
d1.4	CONTROLLER SOFTWARE VERSION
d1.5	HYDRAULIC SCHEMATIC OF REGULATOR

No.	Description
d1.6	<b>ERROR CODE DISPLAY</b> See chapter “Malfunction”
d1.7 <sup>1</sup>	<b>BATTERY VOLTAGE DISPLAY</b>
d1.8 <sup>2</sup>	<b>WIRELESS SIGNAL STRENGTH (dB)</b>
d1.10	<b>PRODUCT TYPE</b>
d1.11	<b>OEM AND PRODUCT FAMILY</b>
d1.12	<b>PRODUCT SERIAL NUMBER</b>

<sup>1</sup> This information is only available in battery versions.

<sup>2</sup> This information is only available in wireless versions.

The submenus P1, P2, and S1 contain parameters for operation settings.



When entering submenu P1, P2, or S1, you can browse through the parameters with **+** and **-**.

Confirm the setting of the selected parameter by pressing the **✓** button again.

To exit the parameter and move to the next parameter press **⏻**.

Press the **✓** button to change the parameter setting. The setting value flashes. Now you can change the setting with the buttons **+** and **-**.

Confirm the setting by pressing the **✓** button again.

---

**1** Settings menu.

**2** Submenu code and sequence number of the data.

**3** Data display.

---

## Operation settings P1

Submenu P1 contains the following settings or operating parameters:

No.	Description	Range (default)
P1.1	<p><b>TEMPERATURE DISPLAY ROUND-OFF</b> With this setting, you can determine to what value the measured temperature display will be rounded off.</p> <p>1 - 0.1 °C 2 - 0.2 °C 3 - 0.5 °C 4 - 1.0 °C</p>	1 ÷ 4 ( <b>3</b> )
P1.2	<p><b>AUTOMATIC EXIT TIME</b> This setting determines the time after which the display returns to basic mode. (seconds)</p>	3 ÷ 180 s ( <b>15</b> )
P1.3	<p><b>DISPLAY BACKLIGHT SHUT-OFF TIME</b> This setting determines the time after which display lighting is reduced or shut off. (seconds)</p>	3 ÷ 180 s ( <b>30</b> ), ( <b>3</b> ) in battery version
P1.4	<p><b>DISPLAY BACKLIGHT OPERATION MODE</b> This setting determines the type of operation of display lighting. The following settings are available: 0 - Disabled. 1 - The display has maximum brightness when entering settings for the room unit. After a delay, display backlight is reduced to the minimum value.</p>	0 ÷ 1 ( <b>1</b> )
P1.5	<p><b>INACTIVE SCREEN BACKLIGHT</b> The setting determines the brightness of the screen when it is inactive. (%)</p>	0 ÷ 100 %, ( <b>5</b> ) ( <b>0</b> ) in battery version



*Range values highlighted in bold in tables are factory preset.*

---

No.	Description	Range (default)
P1.6	<b>ACTIVE SCREEN BACKLIGHT</b> The setting determines the brightness of the screen when it is active. (%)	0 ÷ 100 %, <b>(80)</b> <b>(60)</b> in battery version
P1.8	<b>SOUND</b> This setting determines when sound is activated. 0 - disabled 1 - buttons 2 - buttons and errors	0 ÷ 2 <b>(2)</b>
P1.9	<b>CONTROLLER ERROR DISPLAY</b> This setting determines whether controller errors on screen. 0 - disabled 1 - displayed	0 ÷ 1 <b>(1)</b>
P1.10	<b>BASIC DISPLAY</b> This setting determines which information will be displayed on the basic display. 1 - room temperature 2 - time 3 - date 4 - year 7 - auxiliary sensor 8 - outdoor temperature 11 - T1 controller sensor ... 22 - T22 controller sensor	1 ÷ 22 <b>(1)</b>

No.	Description	Range (default)
P1.11	<p><b>FIRST DISPLAY IN INFO LINE</b>            This setting determines which data will be displayed first in the info line.            0 - disabled            1 - room temperature            2 - time            3 - date            4 - year            7 - auxiliary sensor            8 - outdoor temperature            11 - T1 controller sensor            ...            22 - T22 controller sensor</p>	0 ÷ 22 (2)
P1.12	<p><b>SECOND DISPLAY IN INFO LINE</b>            This setting determines which data will be displayed second in the info line.            Setting range is identical to parameter P1.11.</p>	The factory setting depends on the device.
P1.13	<p><b>THIRD DISPLAY IN INFO LINE</b>            This setting determines which data will be displayed third in the info line.            Setting range is identical to parameter P1.11.</p>	The factory setting depends on the device.
P1.14	<p><b>FOURTH DISPLAY IN INFO LINE</b>            This setting determines which data will be displayed fourth in the info line.            Setting range is identical to parameter P1.11.</p>	0 ÷ 8 (0)

No.	Description	Range (default)
P1.15	<b>FIFTH DISPLAY IN INFO LINE</b> This setting determines which data will be displayed fifth in the info line. Setting range is identical to parameter P1.11.	0 ÷ 8 (0)
P1.16	<b>SIXTH DISPLAY IN INFO LINE</b> This setting determines which data will be displayed sixth in the info line. Setting range is identical to parameter P1.11.	0 ÷ 8 (0)
P1.17	<b>SEVENTH DISPLAY IN INFO LINE</b> This setting determines which data will be displayed seventh in the info line. Setting range is identical to parameter P1.11.	0 ÷ 8 (0)
P1.18	<b>NUMBER OF DATA ON BASIC DISPLAY</b> This setting determines how many information from the info line should be alternately displayed on the basic display.	1 ÷ 8 (1)
P1.19	<b>DETERMINATION OF USER FUNCTIONS</b> This setting determines which user functions can be activated in the menu for turning user functions on/off. 1 – Party, 2 – Eco, 3 – Party, Eco, 4 – Holiday, 5 – Party, Holiday, 6 – Eco, Holiday, 7 – Party, Eco, Holiday, 8 – Fireplace, ... 31 – Par., Eco, Hol., Fir., 1x d.h.w.	1 ÷ 31 (31)

## Operation settings P2

Submenu P2 contains the following settings or operating parameters:

No.	Description	Range (default)
P2.1	<b>ROOM UNIT ADDRESS</b> 0 - auto setting 1 - address 1 2 - address 2	0 ÷ 2 ( <b>0</b> )
P2.12	<b>TIME WHEN ROOM TEMPERATURE IS NOT CONSIDERED</b> Used with the Fireplace function. The operation of the function is described in the chapter "Fireplace". (minutes)	15 ÷ 720 min ( <b>120</b> )



*The table values in bold are factory-preset.*

---

## Service settings S1

Access to submenu S1 is factory-locked and hidden. To enter submenu S1, proceed as follows: locate submenu P2 in the menu, then press and hold the **+** button for ten seconds.

### View and change settings:

When entering the S1 submenu, you can scroll through the settings or parameters with the buttons **+** and **-**. Press the **✓** button to change the setting. The setting value starts flashing and can be changed by pressing the **+** and **-** buttons. Confirm the setting by pressing the **✓** button.

*Parameter S1.16 specifies which parameter groups are locked:*



*S1.16=0 - no locking,*

**S1.16=1** - group S1 is locked (factory setting),

*S1.16=2 - groups P1, P2, and S1 are locked.*

The following service settings or operating parameters are located in submenu S1:

No.	Description	Range (default)
S1.2	<b>BUILT-IN SENSOR</b> This setting determines the effect of the built-in temperature sensor. 0 - disabled 1 - enabled	0 ÷ 1 ( <b>1</b> )
S1.3	<b>AUXILIARY SENSOR ON AUX INPUT</b> The setting determines the effect of the auxiliary sensor at the AUX input. 0 - disabled 1 - enabled	0 ÷ 1 ( <b>0</b> )
S1.9	<b>CALIBRATION OF THE BUILT-IN SENSOR</b> This setting determines the correction of the measured temperature of the built-in sensor. (°C)	-5.0 ÷ 5.0 °C <b>(0.0)</b>
S1.10	<b>CALIBRATION OF AUXILIARY SENSOR</b> This setting determines the correction of the measured temperature of the auxiliary sensor at the AUX input. (°C)	-5.0 ÷ 5.0 °C <b>(0.0)</b>

No.	Description	Range (default)
S1.16	<b>LOCKING THE MENU</b> This setting limits access to parameter groups in the menu. 0 - disabled 1 - S1 2 - P1, P2, and S1	0 ÷ 2 (1)
S1.17	<b>LOCKING BUTTONS</b> This setting locks button functionality. 0 - disabled 1 - operating mode, 2 - same as 1 and functions, 3 - same as 2 and requested temp., 4 - same as 3, info browsing and settings.	0 ÷ 4 (0)
S1.18	<b>MINIMUM SETTING OF REQUESTED TEMPERATURE</b> This setting determines the minimum possible setting of room temperature. (°C)	4 ÷ 40 °C (6)
S1.19	<b>MAXIMUM SETTING OF REQUESTED TEMPERATURE</b> The setting determines the maximum possible setting of the room temperature. (°C)	4 ÷ 40 °C (30)

Locking the buttons restricts or disables unwanted settings or activation of user functions. The buttons are locked and unlocked by pressing the  button for 10 seconds.

Which buttons are locked is set with parameter S1.17.

---



*When the buttons are locked, the symbol  appears in basic display.*

---

## RESET OF ROOM UNIT

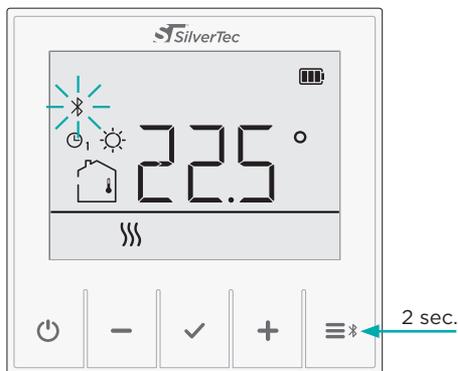
By pressing the  button for 20 seconds, parameters in groups P1, P2, and S1 are restored to factory settings. On the wireless room unit, the paired controller is also removed when reset. Factory settings in the table of parameters are marked with bold text.

# OPERATING THE ROOM UNIT WITH A SMART DEVICE

The room unit can also be operated using an app on a smart device. You can download the Heating@home app from Google Play for Android smart devices and from iStore for iOS devices.



To operate the room unit, it is necessary to pair the room unit with the application on the smart device. This is done by selecting the icon  in the app to add a new device and following the instructions in the app. Then, by pressing the  button for 2 seconds, you activate the Bluetooth connection of the room unit with the app on the smart device. The symbol  on the screen blinks while the connection is being established and lights up when the connection is successfully established.



*It is not required to reconnect the already paired room unit to the smart device. It is enough to open the app, which will automatically connect to a previously paired room unit within a few seconds. The connected room unit displays the icon  in the app.*

*For a successful connection, the room unit and the smart device must be at a distance that enables Bluetooth connection.*

In parameter d1.7, you can read the code or cause of the malfunction.  
A description of the malfunction, how the room unit works in this case, and how to deal with the malfunction is shown in the table.

Malfunction code	Description of the malfunction, emergency operation, and troubleshooting instructions
<p><b>E<sub>r</sub> 1</b> Room unit temperature sensor error.</p>	<p>The internal room temperature sensor on the room unit is interrupted or short-circuited.</p> <p><b>Troubleshooting instructions</b> The room unit must be sent in for repair.</p>
<p><b>E<sub>r</sub> 2</b> Failure of the auxiliary sensor connected to the base of the room unit</p>	<p>The auxiliary temperature sensor connected to the base of the room unit is interrupted or short-circuited.</p> <p><b>Troubleshooting instructions</b> Check whether the following is the case:</p> <ul style="list-style-type: none"> <li>• The auxiliary sensor is properly plugged into the terminals.</li> <li>• The auxiliary sensor is short-circuited. In this case, it must be replaced with a new one.</li> <li>• The measured resistance of the sensor is stable and does not change. If the value changes rapidly, the sensor must be replaced.</li> </ul>
<p><b>E<sub>r</sub> 10</b> Error in wire communication with controller</p>	<p>Check the connection between the room unit and the controller. If two room units are connected, check the address setting of the room units.</p>

	KMS-remote
Illuminated display	Yes
Temperature sensors	RTD Murata NTC (10 kOhm)
Auxiliary temperature sensor (AUX)	RTD Murata NTC (10 kOhm)
Power supply	12 V DC, bus line
Normal consumption	< 0.2 W
Level of protection	IP 20 according to EN 60529
Safety class according to EN 60730-1	III
Housing	PC+ABS thermoplastic
Dimensions (mm) (WxHxD)	81x81x24.5
Flush mounting method	Yes
Ambient temperature	0 ÷ 40 °C
Storage temperature	-20 °C ... +65 °C
Weight, net	-115 g
Connection	Modbus, wire connection

# DISPOSAL OF OLD ELECTRICAL AND ELECTRONIC EQUIPMENT



Disposal of old electrical and electronic equipment (applies to EU member states and other European countries with a waste separation system).

This symbol on the product or packaging marks that it should not be discarded as household waste. It needs to be taken to a collection point for waste electrical and electronic equipment (WEEE). Suitable disposal of this product prevent negative effect on the environment and health which could otherwise be caused by its unsuitable disposal. Recycling of material reduces usage of new raw materials. For more information on recycling of this product, contact the competent authorities, municipal service or to the store where you purchased the product.

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