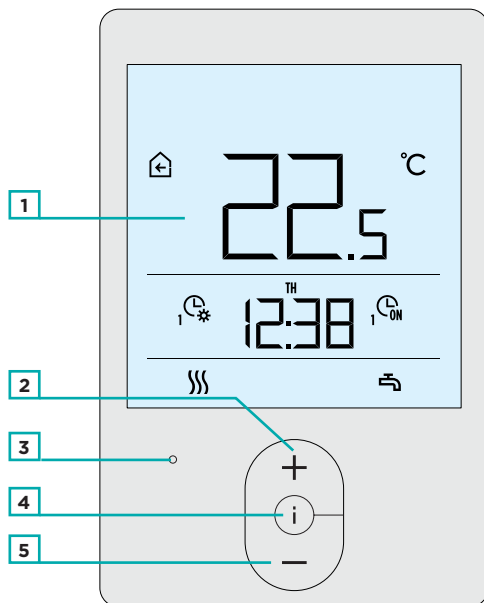





Room unit

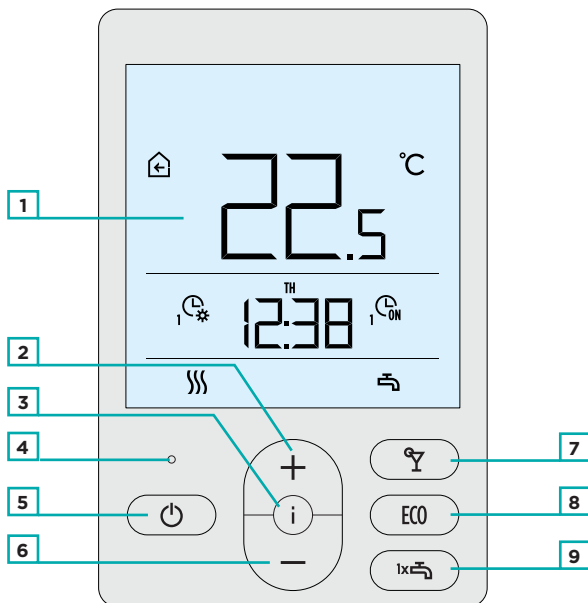
RCD










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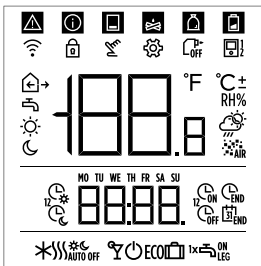


- 1 Illuminated display.
- 2 Button  for increasing a setting or moving forwards.
- 3 Light sensor.
- 4 Button  for reviewing data and entering settings.
- 5 Button  for reducing the setting or moving backwards.



- 1** Illuminated display.
- 2** Button  for increasing a setting or moving forwards.
- 3** Light sensor.
- 4** Button  for reviewing data and entering settings.
- 5** Button  for turning on/off room heating.
- 6** Button  for reducing the setting or moving backwards.
- 7** Button  for turning on/off the Party function.
- 8** Button  for turning on/off the Eco function.
- 9** Button  for turning on/off the function for single heating of domestic hot water and for turning on/off heating of domestic hot water.

ROOM UNIT DISPLAY



Event display symbols

Display of measured and requested temp. and other information





Display of time, day of the week and state of time programmes

Operating mode display

DESCRIPTIONS OF SYMBOLS ON SCREEN

EVENT DISPLAY SYMBOLS












Symbol	Description
	Warning. When an error occurs on the heating controller, the room unit makes two long beeps, and the symbol starts flashing. When the error is no longer present, the symbol is lighted. When we read the error in the error list on the controller, the symbol turns off.
	Heating controller safety function turning on notification. When a protective function occurs on the controller, the room unit makes a single long beep, and the symbol starts flashing. When the protective function is no longer present, the symbol is lighted. When we read the protective function in the notification list on the controller, the symbol turns off.
	Notification about the heat accumulator. When accumulator temp. does not meet heating needs, the room unit makes two short beeps, and the symbol starts flashing. When accumulator temp. falls below minimum temp., the room unit makes three short beeps, and the symbol lights up.
	Log or wood chip boiler notification. When boiler temp.e does not meet heating needs, the room unit makes two short beeps, and the symbol starts flashing. When boiler temp. falls below minimum temp., the room unit makes three short beeps, and the symbol lights up.
	Pellet storage room notification. When the pellet storage room is nearly empty or empty, the room unit makes three short beeps, and the symbol starts flashing.
	Locked buttons.

Symbol	Description
	Manual intervention in controller operation.
	Menu for data and settings.
	Manual switch-off of liquid fuel boiler.
	Room unit address (1-first or 2-second).



Sound signalling of warnings and notifications is repeated at 20:00 if warnings or notifications are still present. Parameters P1.8 and P1.9 define which events should be displayed visually and by sound.

SYMBOLS FOR DISPLAYING MEASURED AND REQUESTED TEMP. AND OTHER INFORMATION

Symbol	Description
 and °C	Measured room temp.
 and °C	Measured external temp.
 and °C	Measured domestic hot water temp.
RH%	Measured relative air humidity in the room.
 and °C±	Requested day temp.
 and °C±	Requested night temp.
 and °C±	Requested domestic hot water temp.
 and °C±	Requested temp. for frost protection.
	Weather forecast - sunny.
	Weather forecast - overcast.
	Weather forecast - cloudy.
	Weather forecast - rainfall.





SYMBOLS FOR DISPLAYING DAY OF THE WEEK AND STATE OF TIME PROGRAMMES

Symbol	Description
MO TU WE TH FR SA SU	MO - Monday, TU - Tuesday, WE - Wednesday, TH - Thursday, FR - Friday, SA - Saturday, SU - Sunday.
	Operation according to program interval - day temp. *
	Operation according to program interval - night temp. *
	D.h.w. warming according to program interval - switch-on interval.
	D.h.w. warming according to program interval - switch-off interval.
	Time when function Party or Eco is finished.
	The date when the Holiday function ends.

* The number by the symbol marks the first or the second time program accordingly.

SYMBOLS FOR OPERATION MODE INDICATION

Symbol	Description
	Room heating.
	Room cooling.
	Uninterrupted room heating to the requested day temperature.
	Uninterrupted room heating to the requested night temperature.
	Uninterrupted room cooling to the requested day temperature.
	Uninterrupted room cooling to the requested night temperature.
	Automatic heating shut-down - summer heating mode.
	Party function active.
	Eco function active.
	Vacation function active.
	D.h.w. warming.

Symbol	Description
	Permanent switch-on of d.h.w. warming.
	One-time d.h.w. warming active.
	Anti-legionella protection active.
	Room heating switch-off. Frost protection activated.

INFO - OVERVIEW OF INFORMATION


The room unit measures and displays the room temperature in addition to other information about the microclimate in the room. Use the **i** button to browse through data.

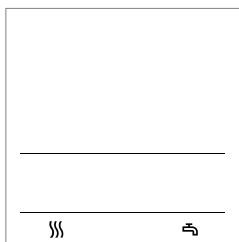
i

How much and which information can we browse is determined with parameters 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 temp. Information is switched on 3-second intervals.

OPERATION MODE SELECTION (RCD2 ONLY)


By pressing the button  for 2 seconds we turn room heating on or off.

By pressing the button  for 2 seconds we turn domestic hot water warming on or off.





Symbols for operation mode indication

- ⏻ - room heating
- * - room cooling
- 🚿 - d. h. w. warming
- ⏻ - heating or cooling of rooms off

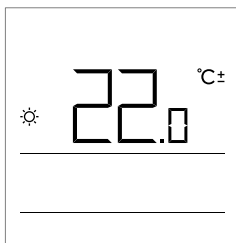
By pressing the button  for 20 seconds we switch between heating and cooling of rooms.





SETTING THE REQUESTED DAY AND NIGHT TEMP., AND REQUESTED DOMESTIC HOT WATER TEMP.

By pressing the button  or  activate settings of the requested temperatures. Actual requested temp. is displayed.

Temp. symbol

- ☀ - day temperature.
- ☾ - night temperature.
- 🚿 - d. h. w. temperature.



Buttons  and  change the requested temp. Change the setting while the value is flashing. For setting other requested temperatures move by pressing the button . We can set the requested day and night temp., and requested domestic hot water temp. The icon next to the temp. shows which requested temp. we are setting. With the next press of the button  return to the basic display.



Setting the requested day and night temp., and the domestic hot water temp. is enabled only when heating is on and functions Party, Eco or Vacation are not active.

OPERATION MODE SELECTION (RCD2 ONLY)

EN

SETTING THE TEMP. FOR FROST PROTECTION

We can change the setting of the requested room temp. which is considered when the heating is on. When the heating is off, by pressing the button **+** or **-** recall the display of the set temp.

If the button **+** or **-** is pressed and held for at least 2 seconds, the setting value will begin to flash. Now you can change it with buttons **+** and **-**.

By pressing the button **i** we confirm the setting.

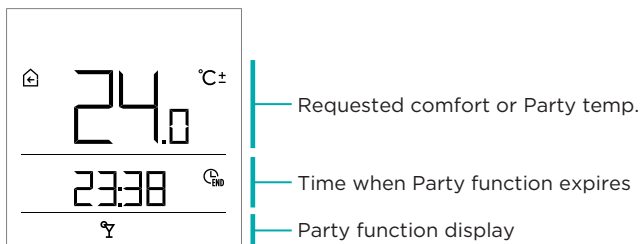
By the next press of the button **i** return to the basic display.



For the frost protection to be active, the boiler or the heat generator must be turned on! Frost protection temp. setting is enabled only when heating is off and functions Party, Eco and Vacation are not active.

PARTY FUNCTION (RCD2 ONLY)

Party function enables to turn on heating according to the requested comfort temperature at any time. Function can be activated by pressing the button **🏠**.



Now we can change the requested comfort temperature with buttons **+** and **-**. Change the setting while the value is flashing. By pressing the **🏠** or **i** button, we move to time setting. Use buttons **+** and **-** to set time until when comfort heating should operate. Change the setting while the value is flashing. By the next press of the button **🏠** or **i** return to the basic display.

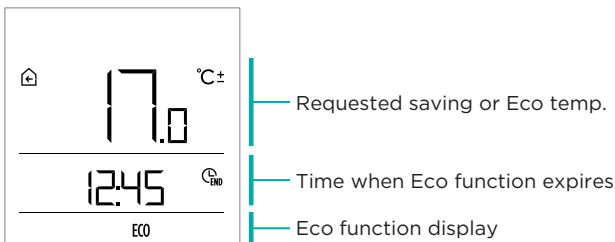
When the Party function is on, we can check or change settings by pressing button **+** or **-**.

Party function can be reactivated before expiration of time by pressing again the button **🏠** (RCD2 only).

OPERATION MODE SELECTION (RCD2 ONLY)

ECO FUNCTION (RCD2 ONLY)

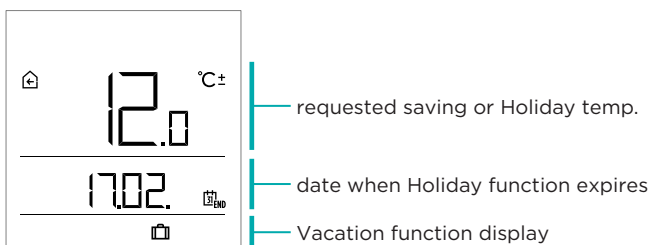
Eco function enables activation of heating according to the requested saving temp. at any time. Function can be activated by pressing the ECO.



Now we can change the requested saving temp. with buttons **+** and **-**. Change the setting while the value is flashing. By pressing the ECO or **i** button, we move to time setting. Buttons **+** and **-** are used to set time until when saving heating should operate. Change the setting while the value is flashing. By the next press of the ECO or **i** button, return to the basic display. When Eco function is on, we can check or change settings by pressing button **+** or **-**. Eco function can be turned off before expiration of time by pressing ECO button again.

HOLIDAY FUNCTION (RCD2 ONLY)

Vacation function enables activation of heating according to the requested saving temp. until a specific date at any time. Function can be activated by pressing the ECO button for 10 seconds.




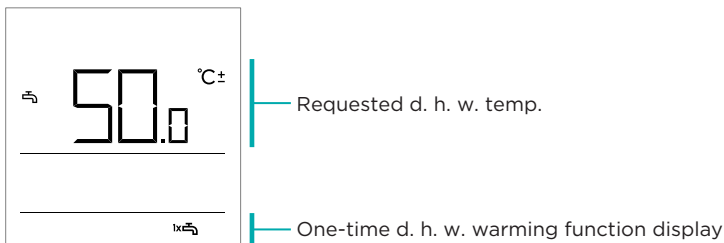
Now we can change the requested saving temperature with buttons **+** and **-**. Change the setting while the value is flashing. By pressing the ECO or **i** button, we move to date setting. Use buttons **+** and **-** to set date until when vacation heating should operate. Change the setting while the value is flashing. By the next press of the ECO or **i** button, return to the basic display. When Holiday function is on, we can check or change settings by pressing button **+** or **-**. Vacation function can be turned off before expiration of time by pressing again the ECO button for 10 seconds





OPERATION MODE SELECTION (RCD2 ONLY)

EN

ONE-TIME DOMESTIC HOT WATER WARMING FUNCTION (RCD2 ONLY)


Function enables that we can turn one-time d.h.w. heating to the requested temp. at any time. The function is automatically turned off when domestic hot water is warm or after one hour. Function can be activated by pressing the button .



Now we can change the requested temp. of domestic hot water by pressing button  and . Change the setting while the value is flashing. By pressing the button  again, return to the basic display. One-time domestic hot water function can be turned off before expiration by pressing .

FIREPLACE FUNCTION (RCD2 ONLY)

The Fireplace function enables temporary shut-down of room temp. effect on room heating regulation. This function is turned on when we make a fire in the fireplace in the living room which has the room unit. This prevents to reduce the temp. levels in other rooms due to increase of temp. in the living room.

Function can be activated by pressing the  button for 10 seconds.

Operation of fireplace function is indicated by the flashing symbol .

Fireplace function works at least for the amount of time set with parameter S1.13. After expiration of time, it works until the measured room temp. is higher than the requested room temp. that is set.

Fireplace function can be turned off before expiration of time by pressing again the button  for 10 seconds.

i *By pressing , any setting can be terminated at any time, and we can return to the basic display.*

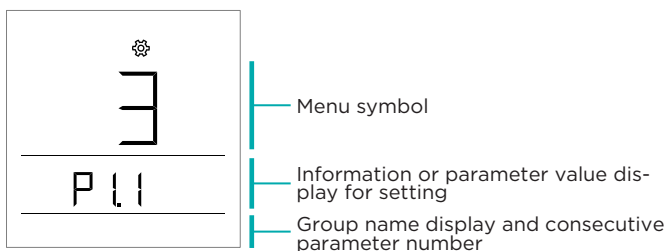
ADDITIONAL AND SERVICE SETTINGS

Access to additional settings is enabled through the menu.
Data and parameters are located in five groups in the menu:
t1 - measured and requested temperatures,
d1 - data on room unit and heating controller,
P1 - user settings (parameters),
P2 - user settings (parameters)
S1 - service settings (parameters).

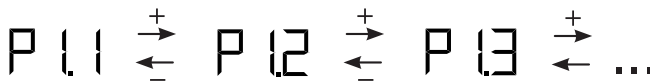
By pressing the button **i** for 2 seconds, we enter the menu.
Move between groups with buttons **+** and **-**.



By pressing the button **i**, we enter the selected group.



Move between information and parameters for settings in individual groups with buttons **+** and **-**. Only parameters in groups P1, P2, and S1 can be changed.



By pressing **i**, the setting value starts flashing. Now we can change the parameter value with button **+** and **-**. Confirm the set value by pressing the button **i**.

i By pressing button **⏻** or by pressing the button **i** for 2 seconds, we move one level back in any level of settings.

ADDITIONAL AND SERVICE SETTINGS

EN

INFORMATION GROUP T1 - TEMPERATURES

No.	Description
t1.1	T1 CONTROLLER SENSOR Measured and calculated temp. for T1 sensor are displayed alternately.
t1.2	T2 CONTROLLER SENSOR Measured and calculated temp. for T2 sensor are displayed alternately.
t1.3	T3 CONTROLLER SENSOR Measured and calculated temp. for T3 sensor are displayed alternately.
t1.4	T4 CONTROLLER SENSOR Measured and calculated temp. for T4 sensor are displayed alternately.
t1.5	T5 CONTROLLER SENSOR Measured and calculated temp. for T5 sensor are displayed alternately.
t1.6	T6 CONTROLLER SENSOR Measured and calculated temp. for T6 sensor are displayed alternately.
t1.7	T7 CONTROLLER SENSOR Measured and calculated temp. for T7 sensor are displayed alternately.
t1.8	T8 CONTROLLER SENSOR Measured and calculated temp. for T8 sensor are displayed alternately.
t1.9	T9 CONTROLLER SENSOR Measured and calculated temp. for T9 sensor are displayed alternately.
t1.10	T10 CONTROLLER SENSOR Measured and calculated temp. for T10 sensor are displayed alternately.
t1.11	T11 CONTROLLER SENSOR Measured and calculated temp. for T11 sensor are displayed alternately.
t1.12	T12 CONTROLLER SENSOR Measured and calculated temp. for T12 sensor are displayed alternately.
t1.13	THE FIRST HEATING CIRCUIT TR1 Measured and requested room temp. of the first heating circuit are displayed alternately.
t1.14	THE SECOND HEATING CIRCUIT TR2 Measured and requested room temp. of the second heating circuit are displayed alternately.
t1.15	DIRECT CIRCUIT Calculated temp. of the riser for direct circuit is displayed.

ADDITIONAL AND SERVICE SETTINGS

EN

No.	Description	Range
P1.5	MINIMUM SCREEN ILLUMINATION This setting determines minimum display illumination.	0 ÷ 100 % (5)
P1.6	MAXIMUM SCREEN ILLUMINATION This setting determines maximum display illumination.	0 ÷ 100 % (80)
P1.7	DISPLAY CONTRAST This setting determines display contrast.	1 ÷ 8 (6)
P1.8	SOUND This setting determines when sound is activated	0 - never 1 - buttons 2 - buttons and warnings 3 - buttons, warnings, and notifications
P1.9	DISPLAYING WARNINGS AND MESSAGES This setting determines whether warnings and notifications are displayed.	0 - no display 1 - warnings 2 - warnings and notifications
P1.10	BASIC DISPLAY This setting determines which information will be displayed on the basic display.	1 - room temp. 2 - auxiliary temp. 3 - d. h. w. temp. 4 - humidity 5 - air pressure 6 - auxiliary sensor 7 - air quality* 11 - T1 controller sensor ... 22 - T12 controller sensor
P1.11	FIRST DISPLAY IN THE INFO LINE This setting determines which information will be displayed first in the info line.	0 - no display 1 - room temp. 2 - auxiliary temp. 3 - d. h. w. temp. 4 - humidity 5 - air pressure 6 - auxiliary sensor (AUX) 7 - air quality* 11 - T1 controller sensor ... 22 - T12 controller sensor

ADDITIONAL AND SERVICE SETTINGS

No.	Description	Range
P1.12	SECOND DISPLAY IN THE INFO LINE This setting determines which information will be displayed second in the info line.	Setting range is identical to parameter P1.11. Factory setting is: 3 - d. h. w. Temp.
P1.13	THIRD DISPLAY IN THE INFO LINE This setting determines which information will be displayed third in the info line..	Setting range is identical to parameter P1.11. Factory setting is: 4 - humidity
P1.14	FOURTH DISPLAY IN THE INFO LINE This setting determines which information will be displayed fourth in the info line.	Setting range is identical to parameter P1.11. Factory setting is: 5 - air pressure
P1.15	FIFTH DISPLAY IN THE INFO LINE This setting determines which information will be displayed fifth in the info line.	Setting range is identical to parameter P1.11. Factory setting is: 0 - no display
P1.16	SIXTH DISPLAY IN THE INFO LINE This setting determines which information will be displayed sixth in the info line.	Setting range is identical to parameter P1.11. Factory setting is: 0 - no display
P1.17	SEVENTH DISPLAY IN THE INFO LINE This setting determines which information will be displayed seventh in the info line.	Setting range is identical to parameter P1.11. Factory setting is: 0 - no display
P1.18	NUMBER OF INFORMATION ON BASIC DISPLAY This setting determines how many information from the info line should be alternatively displayed on the basic display.	1 ÷ 9 (1)

* RCD1 Premium and RCD2 Premium only.

PARAMETER GROUP P2 - ROOM UNIT ADDRESS

No.	Description	Range
P2.1	ROOM UNIT ADDRESS This setting determines room unit address. It can be 1 or 2. During initial operation, room unit address is set automatically.	0 - auto setting 1 - address 1 2 - address 2

ADDITIONAL AND SERVICE SETTINGS

EN

S1 PARAMETER GROUP - SERVICE PARAMETERS

No.	Description	Range
S1.2	ROOM TEMPERATURE This setting determines which sensor is used for room temp. Info: For setting 3, median value of the installed and auxiliary sensor is calculated for room temp.	0 - none 1 - built-in sensor 2 - auxiliary sensor (AUX) 3 - built-in and additional sensor
S1.3	CALIBRATION OF BUILT-IN TEMPERATURE SENSOR This setting determines the correction of measured temp. of the built-in sensor.	-5,0 ÷ 5,0 °C (0,0)
S1.4	AUXILIARY TEMP. SENSOR (AUX) CALIBRATION This setting determines the correction of measured temp. of the auxiliary sensor.	-5,0 ÷ 5,0 °C (0,0)
S1.5	RELATIVE HUMIDITY SENSOR CALIBRATION This setting determines the correction of measured relative humidity in the room.	-10 ÷ 10 % (0)
S1.6	AIR PRESSURE SENSOR CALIBRATION This setting determines correction of measured air pressure.	-100 ÷ 100 mb (0)
S1.7	AIR QUALITY SENSOR CALIBRATION This setting determines the correction of measured air quality.	-1000 ÷ 1000 (0)
S1.8	LIGHT SENSOR CALIBRATION This setting determines the correction of measured lighting in the room.	0,5 ÷ 2 (1)
S1.9	LOCKING THE MENU This setting limits access to parameter groups in the menu.	0 - no lock 1 - S1 2 - P1, P2 and S1
S1.10	LOCKING BUTTONS This setting locks button functionality. Operation of locking buttons function is described in the chapter »Locking buttons«.	0 - no lock 1 - operation type, 2 - same as 1 and functions, 3 - same as 2 and desired temp., 4 - same as 3 and info browsing and settings.
S1.11	MINIMUM SETTING OF REQUESTED TEMP. This setting determines minimum possible setting of room temp.	4 ÷ 40 °C (6)

ADDITIONAL AND SERVICE SETTINGS

<i>No.</i>	<i>Description</i>	<i>Range</i>
S1.12	MAXIMUM SETTING OF REQUESTED TEMP. This setting determines maximum possible setting of room temp.	4 ÷ 40 °C (30)
S1.13	TIME OF IGNORING ROOM TEMP. (RCD2 only) Used with the »fireplace« function. Operation of fireplace function is described in the chapter »Fireplace Function«	1 ÷ 12 ur (5)
S1.14	ALTITUDE FOR WEATHER FORECAST This setting enters the altitude of the room unit. This improves precision of weather forecast.	0 ÷ 1999 m (300)

LOCKING SETTINGS

By locking settings, access to individual parameter groups is disabled. Only unlocked parameter groups are visible. Locked settings can be temporarily unlocked by pressing the button **+** for 20 seconds, while we are in the last unlocked setting group.

Parameter S1.9 determines which settings groups are locked:

S1.9=0 - no lock,

S1.9=1 - group S1 is locked,

S1.9=2 - groups P1, P2 and S1 are locked.

LOCKING SETTINGS

By locking keys, we limit or disable unrequested settings or activation of functions. Buttons are locked by pressing the button **—** for 10 seconds, and unlocked by pressing the button **+** for 10 seconds.

Parameter S1.10 determines the extent of locking buttons:

S1.10=0 - no lock,


S1.10=1 - type of operation for rooms and sanitary water is locked,

S1.10=2 - same as 1, but adds the lock of Party, Eco, d.h. w., and Fireplace functions.

S1.10=3 - same as 2, but adds the lock of requested temperatures,

S1.10=4 - same as 3, but adds the lock of browsing of info displays and additional service settings.



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

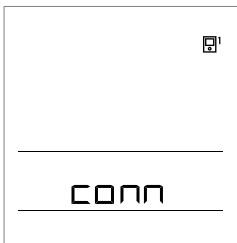
By pressing the button \bar{i} for 40 seconds, parameters in groups P1, P2 and S1 are restored to factory settings. Factory settings in table of parameters are marked with **bold text**.

ERROR DESCRIPTION

<i>Error</i>	<i>Description</i>
E _r 1	Room sensor error. If parameter S1.2=1, the built-in sensor contains the fault. If parameter S1.2=2, the auxiliary sensor contains the fault. Check type and connection of auxiliary sensor. If parameter S1.2=3, the built-in or the auxiliary sensor contains the fault. Check type and connection of auxiliary sensor. If the error is not fixed, room unit should be sent to service.
E _r 2	Auxiliary sensor error. Check type and connection of auxiliary sensor. If the error is not fixed, room unit should be sent to service.
E _r 3	External sensor error. Check type and connection of external sensor on the heating controller.
E _r 4	Domestic hot water sensor error. Check the type and connection of the d. h. w. sensor on the heating controller.
CONN E _r r	Connection error with heating controller. Check connection between room unit and heating controller. When two room units are connected, check the address setting of room units.



For installation and connection always follow the inclosed instructions.



During initial operation, room unit address is set automatically. If one room unit is connected, it acquires address 1. If an additional room unit is connected, it acquires address 2. If two room units are connected simultaneously, address has to be confirmed or set on one of them, and the other room unit automatically acquires the remaining address. By factory settings, room unit 1 affects the first, and room unit 2 affects the second heating circuit.

Parameter P2.1 is used to set the address for the room unit manually:

P2.1=0 - room unit address is set automatically,

P2.1=1 - Room unit address is 1,

P2.1=2 - Room unit address is 2.

	<i>RCD1 / RCD2</i>	<i>RCD1 Premium / RCD2 Premium</i>
Illuminated display	Yes	Yes
Temp. sensor type	Murata NTC (10 kE)	
Possibility of connecting an auxiliary temp. switch (AUX)	Yes	Yes
Lighting sensor	Yes	Yes
Humidity sensor	Yes	Yes
Air quality sensor	No	Yes
Air pressure sensor	Yes	Yes
Power	communication line bus	communication line bus
Maximum use	0.02 W	0.02 W
Level of protection	IP 30 acc. to EN 60529	IP 30 acc. to EN 60529
Safety class	III acc. to EN 60730-1	III acc. to EN 60730-1
Case	PC thermoplast	PC thermoplast
Dimensions (w x h x d)	82 x 125 x 16,5 mm	82 x 125 x 16,5 mm
Ambient temperature	0 ÷ 40 °C	0 ÷ 40 °C
Storage temperature	-20 °C ... +65 °C	-20 °C ... +65 °C
Weight	115 g	135 g

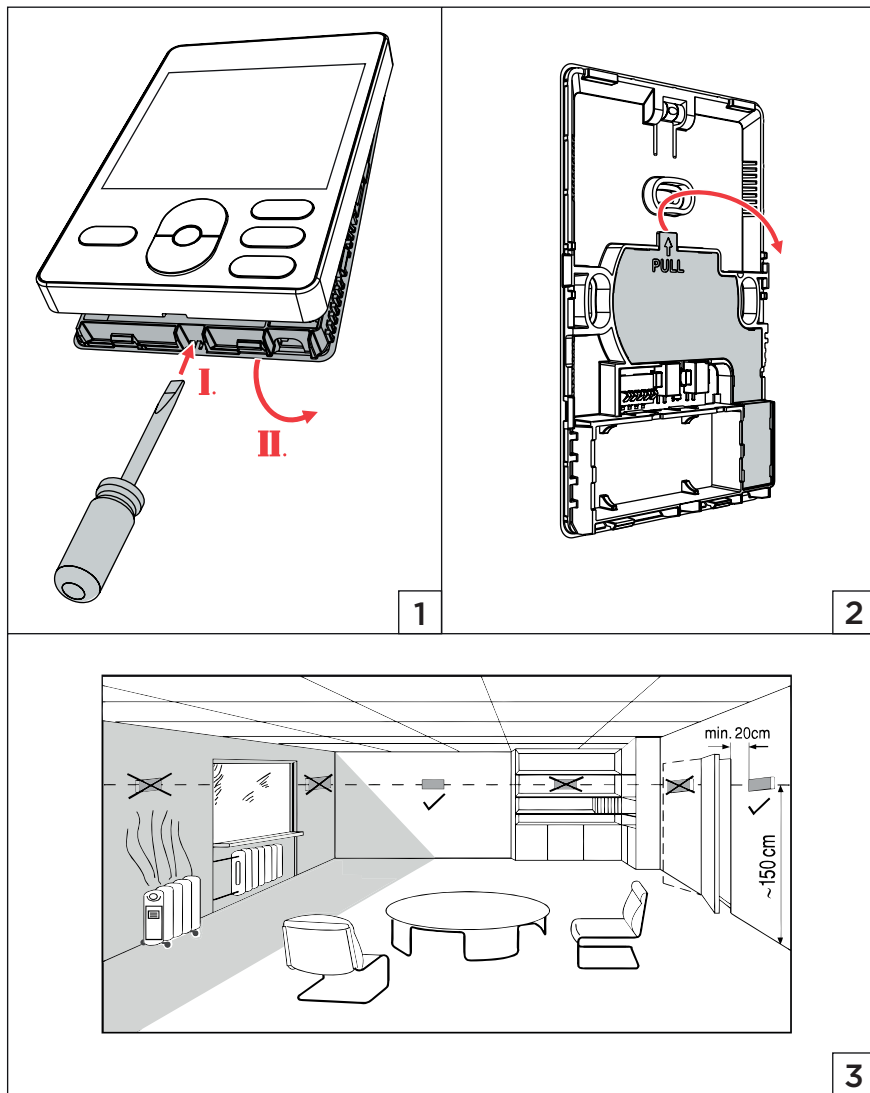
DISPOSAL OF OLD ELECTRICAL AND ELECTRONIC EQUIPMENT

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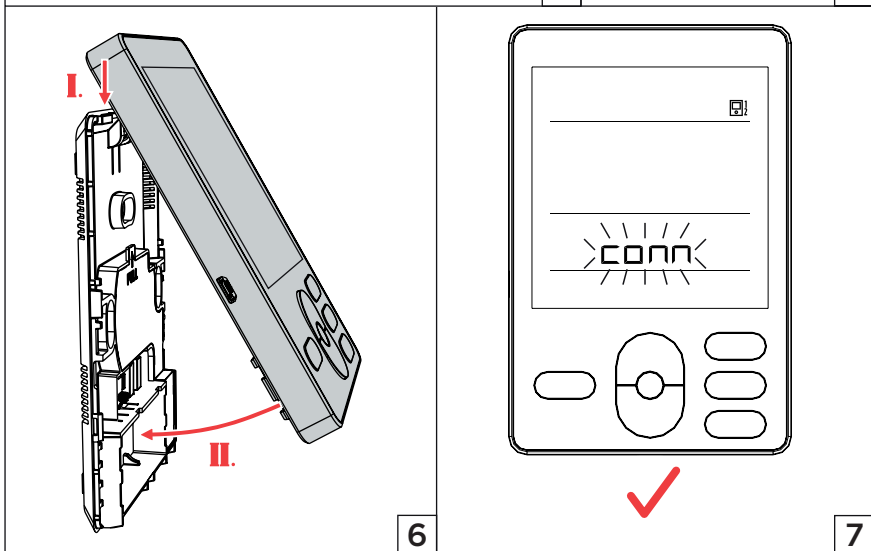
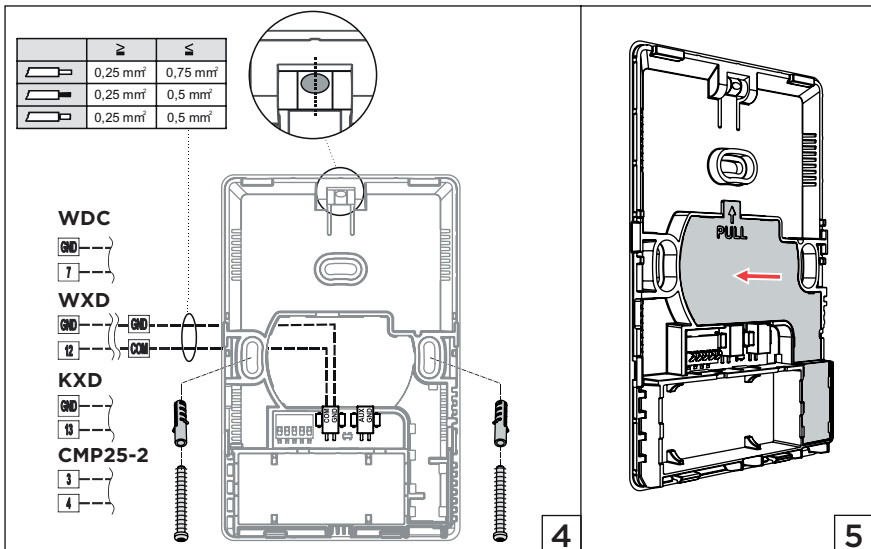
Disposal of old electrical and electronic equipment (applies to EU member states and other European countries with a waste separation system). This symbol on the product or packaging marks that it should not be discarded as household waste. It needs to be taken to a collection point for waste electrical 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.

MOUNTING AND ELECTRICAL CONNECTION



MOUNTING AND ELECTRICAL CONNECTION

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