

English ▾

Nea Smart

03/06/2015 14:36

Overview ▶

1st_floor

- Base Setup
- Room Setup
- Programs/Holidays

System Setup

- HW 01
- SW 01.91
- LAN 01.82
- WEB 01.33
- 38:DE:60:01:19:CF

Overview

1st_floor

Base station's mode	Standalone	Holiday:	inactive
Intelligent start status	inactive	Start (DD/MM/YYYY):	
Frost protection status	activated	End (DD/MM/YYYY):	
High temp alarm status	inactive		
External timer status	inactive		
External heating/cooling status	inactive		
Dew point sensor status	inactive		

NEA SMART MANAGER

Commissioning and operating instructions

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1 GENERAL

1.1 Description

The Nea Smart Manager is a browser-based tool for the operation and configuration of your individual temperature control system via the home network and optionally worldwide via the Internet.

1.2 Prerequisites

This controller is designed and manufactured for the integration of the base station to the home network by the allocation of an individual IP address. You can find further information about the integration in the base station manual.

The operation and configuration of the individual room temperature control via the Internet requires:

- an Internet connection.
- a valid user account for the Nea Smart Manager Remote.

1.3 User account for cloud functionality

Follow the steps below to create a user account:

1. Open www.rehau.com/neasmart
2. Select the desired language.
3. Click on the tab **Nea Smart Manager Remote**.
4. Click on "Create an account" found underneath the login username and password..



Special characters in the user name are not permitted.

5. Enter your information in the form. Mandatory fields are marked with an asterisk *.
6. You will receive a confirmation via e-mail after a successful registration.

1.4 Activate the cloud functionality of the base station


Follow the steps below to activate the cloud functionality of your base station:

- Open the Nea Smart Manager of your base station via the home network (you can find further information about this in the base station installation instructions).

The screenshot shows the 'System Setup' page of the Nea Smart Manager. The left sidebar contains navigation options: Overview, 1st floor (Base Setup, Room Setup, Programs/Holidays), and System Setup (selected). The main content area is divided into three columns. The first column, 'System Setup', contains sections for 'Set date and time' (manual synchronization, date 03/06/2015, time 14:34, GMT +01:00, Wednesday), 'Summer / winter time' (Automatic switching on), and 'Network Settings' (DHCP on, IPv4 address 192.168.1.66, Subnet mask 255.255.255.0, Nameserver 192.168.1.1, Gateway 192.168.1.1, MAC address 38:DE:60:01:19:CF). The second column, 'Temperature display', shows Unit set to °C and Operation mode set to Heating. The third column, 'Cloud-Function', shows Cloud-Function set to activated, Username/ID as Pommer, Password masked, Local Port and Source Port as 52511, Server Address as www.ezr-cloud1.de, and State as Connected. There are 'Set' and 'Delete' buttons at the bottom of the Cloud-Function section.

Fig. 1-1 System Setup


1. Click on **System Setup**.
2. Activate the **Cloud Function** and enter your user name and **password**, selected during registration, in the corresponding fields.
3. Click on **Set**.
 - The base station is now available under your user account in the **Nea Smart Manager Remote** at www.rehau.com/neasmart.

 The communication between Base and Cloud is established via the Local Port and the Source Port. If several base stations are operated in the same network, an individual Local Port and an individual Source Port must be allocated manually to every base station. It is recommended to increase both ports by +1 with respect to the previously registered base. The ports might need to be activated in protected networks and corporate networks.

2 OPERATION

2.1 Access to the system

Access to the Nea Smart system can be achieved via the home network or worldwide via the Internet if connected.


 An optimised display is used when the system is accessed via smartphones. This affects the most frequently used pages.

Access within the home network

The IP address of the Nea Smart Manager can be taken from the configuration pages of your router. For this, compare the MAC address printed on the label of the Nea Smart Base with the list of devices shown on the router.

Save the IP address as a favourite in order to access the Nea Smart Manager quickly and easily.

Access via Internet

 Access via Internet is only possible if the Cloud functionality of the Nea Smart Manager is activated. See chapter 1.3.

Please follow the steps below:

1. Open www.rehau.com/neasmart.
2. Select the desired language.
3. Click on the tab Nea Smart Remote.
4. Enter your user name and password to log on.

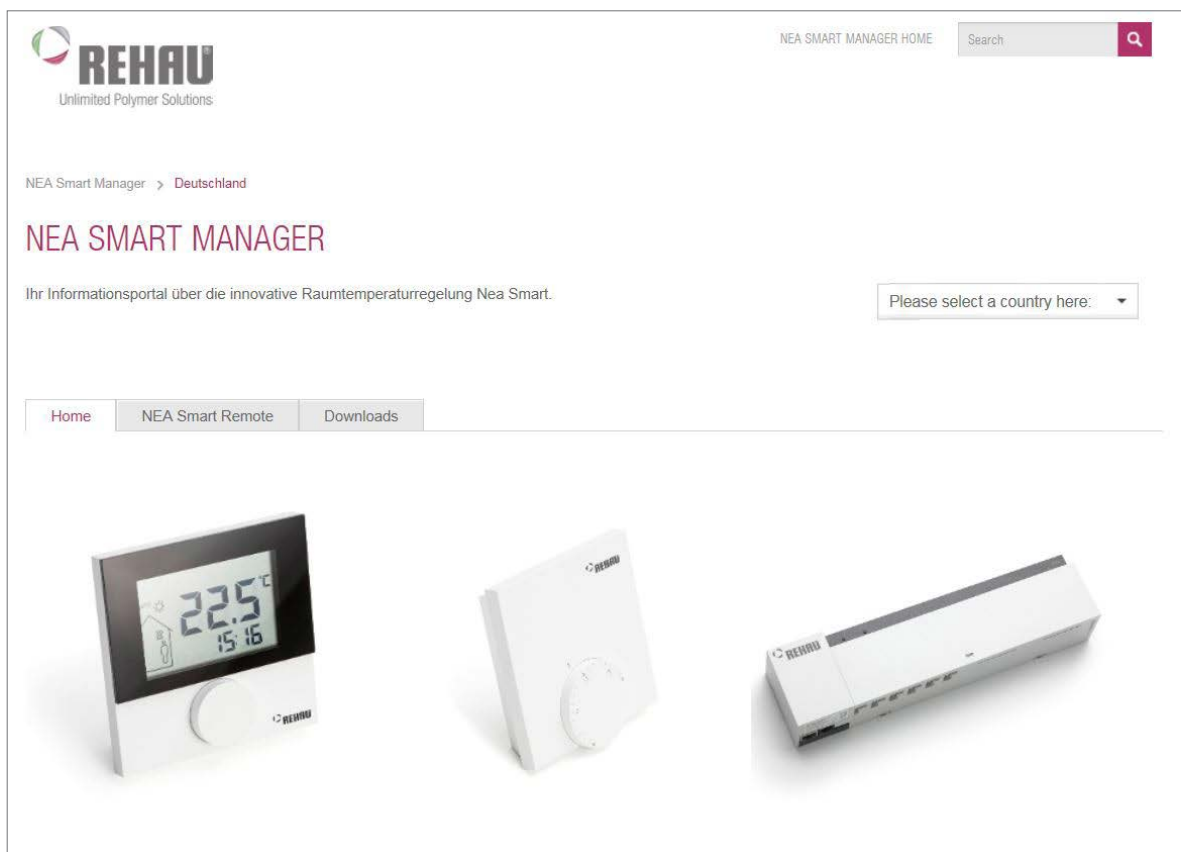


Fig. 2-1 Landing page www.rehau.com/neasmart

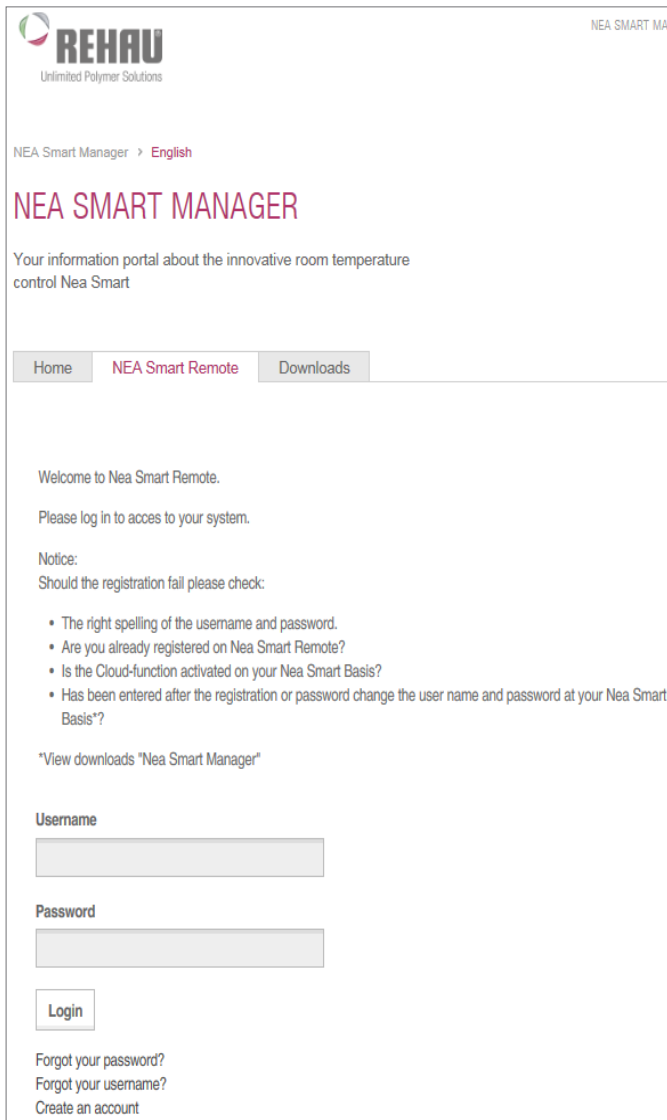



Fig. 2-2 Log-on

 You can speed up the log-on procedure by saving the log-on page (acc. to step 3) as a favourite.

Once you've logged in successfully, the devices registered by you are displayed and the relevant designations are assigned during the log-on.

Click on the desired base station.
You are then connected to the device and an overview is displayed.
(see next chapter).

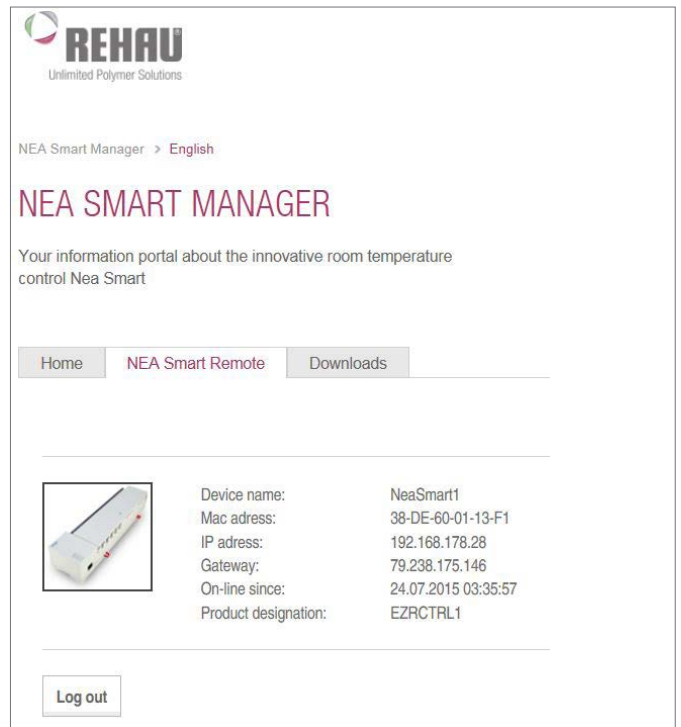


Fig. 2-3 Illustration and selection of the registered Nea Smart Manager

2.2 Overview

The screenshot shows the REHAU Nea Smart web interface. At the top left is the REHAU logo with the tagline 'Unlimited Polymer Solutions'. At the top right, there is a language selection dropdown menu (English) and a red box labeled '1'. Below the logo, the page title 'Nea Smart' is displayed, along with the date and time '03/06/2015 14:36'. The main content area is titled 'Overview' and '1st_floor'. It contains several status indicators: '2 Base station's mode' (Standalone), '3 Intelligent start status' (inactive), '4 Frost protection status' (activated), '5 Holiday' (inactive), '6 High temp alarm status' (inactive), '7 External timer status' (inactive), '8 External heating/cooling status' (inactive), and '9 Dew point sensor status' (inactive). The left sidebar shows navigation options like 'Overview', '1st_floor', 'Base Setup', 'Room Setup', 'Programs/Holidays', and 'System Setup'. At the bottom of the sidebar, technical details are listed: HW 01, SW 01.91, LAN 01.82, WEB 01.33, and 38.DE:60:01:19:CF.

Fig. 2-4 The system at a glance

Name	Function
1 Select the language	You can use this button to select another language.
2 Rank of the base in the system	Shows whether the base station is operated in stand-alone or as master or slave unit.
3 Smart Start	Shows the status of the Smart Start function. When activated, the base station automatically calculates the required line-up time for heating/cooling.
4 Antifreeze protection	Shows whether the antifreeze function is activated or deactivated. If the antifreeze function is activated, antifreeze is automatically switched on at a certain temperature to avoid freezing of the tubes.
5 Vacations	Shows whether the vacation function is currently activated or deactivated or whether vacations are planned for a defined period. Any planned vacation times are displayed here.
6 Temperature limiter	If an optional safety temperature limiter is used, all valves are closed when a critical temperature (status = activated) is exceeded to avoid damage to sensitive floor coverings.
7 Reduction input	The base station is equipped with an ECO input for connecting an external timer, if the internal clock of the room control unit D shall not be used. When the input is activated by the timer, the heating zones which are in the operating mode "automatic" are switched to night operation.
8 CO input	If an external change-over signal is used, the overall installation switches accordingly between heating and cooling (status activated = system is in cooling mode).
9 Dew point sensor	If the installation is equipped with a dew point sensor (provided by the customer), the valves of all heating zones are closed if dewing is detected (status = activated) to avoid damages due to humidity. The dew point sensor input is only used during cooling operation.

2.3 Base station (freely selectable name), overview of the rooms



Fig. 2-5 All rooms at a glance

Name	Function
1 Heating zone name	Freely selectable name of the respective heating zone via the "Room Set-up" menu. 1 to 12 heating zones are displayed depending on the base station and the amount of connected room control units.
2 Actual temperature °C	Shows the current room temperature of the respective heating zone.
3 Target temperature °C	With this button you can set the desired target temperature for the respective heating zone
4 Operating status	With this button you can toggle between the modes Day, Night and Auto for the respective heating zone. Day = permanent control according to the target temperature set at the room control unit Night = Night reduction to a defined reduction level Auto = Control according to the set comfort programs (P0 to P3)
5 Timer signal	With this button you can set whether you want to use an external or an internal clock.
6 Working day program	Shows whether a comfort program is used for the week days Monday to Friday, and which one. Can only be set if the internal timer signal is used.
7 Weekend program	Shows whether a comfort program is used for the week days Saturday and Sunday, and which one. Can only be set if the internal timer signal is used.
8 Battery status (only radio variant)	Shows the life of the battery. Green = OK, yellow = to be changed soon, red = change batteries immediately
9 Radio signal (only radio variant)	Shows the radio connection quality. Green = OK, yellow = bad radio connection, red = no radio connection.
10 Party function/remaining time	Allows the activation of the party function for xx hours. The remaining time of an activated party function is displayed in minutes in the lower part.
11 Extended view	This button opens an extended view of the menu.

2.4 Base station - extended view



Fig. 2-6 Rooms, extended view

Name	Function
1 Presence	Tick the check box if the weekend comfort program shall also be used for working days (e. g. if you spend your vacations at home and if you do not with a daytime reduction). The function is only available in the automatic mode and only for the room control unit display. The presence mode is only active until the next setting time and is then reset.
2 Operating lock	Tick the check box in order to activate the child safety lock at the Room Control Unit D.
3 RBG status	This status display shows whether the Room Control Unit is switched on or off (only Room Control Unit D).
4 RBG SW	Displays the software version of the respective room control unit (RBG).
5 Normal display	The button closes the extended view.

2.5 Base set-up final user level

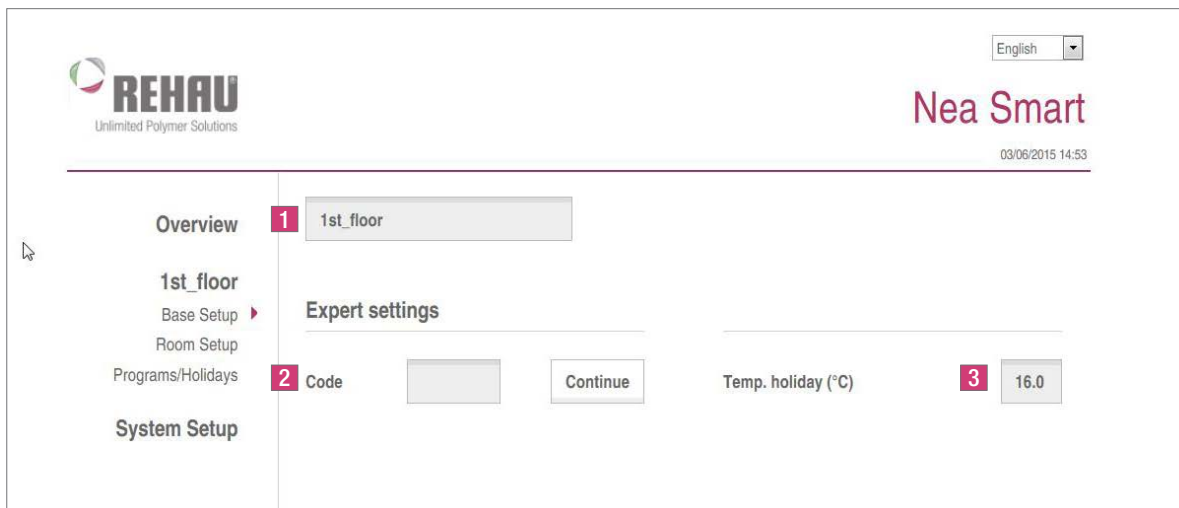



Fig. 2-7 Access to base set-up

Name	Function
1 Base station name	This field allows the assignment of a name for the base station. Only use alphanumeric characters for the name, no special characters. The maximum length is 12 characters. The name entered here will also be used in the cloud. ATTENTION! Enter the code for the expert level before entering the name. The base station is restarted after assigning the name. This requires a new login.
2 Expert settings	ATTENTION! The expert settings may only be used by expert technicians. The service level of the base station is protected by PIN code (1314) When you enter this code you access the service level.
3 Vacation temperature	Here you can set the temperature to be used as the reduction value when the vacations mode is activated. The defined temperature applies to the heating operation. The cooling operation is not performed during vacations.

2.6 Base set-up expert level



REHAU
Unlimited Polymer Solutions

English ▾

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Base Setup ▶

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HW 01

SW 01.91

LAN 01.82

WEB 01.33

38.DE:60.01:19:CF

1st_floor

Expert settings

Code Continue

1 **frost protection**

active Temperature (°C) 8.0

2 **Pump exercise**

Duration until activation (d) 3

Duration (min) 5

3 **Valve exercise**

Duration until activation (d) 14

Duration (min) 5

4 **Safe mode operation**

Duration until activation (min) 180

PWM cycle time heating (%) 25

PWM cycle time cooling (%) 0

5 **Pump settings**

Pump type High efficiency pump ▾

Pump selection local ▾

Pump delay (min) 4

Pump overrun (min) 2

Minimum standstill (min) 10

Minimum runtime (min) 30

Output contacts normal ▾

6 Temp. holiday (°C) 16.0

7 Base station's mode Standalone

8 Intelligent start status active

9 Control dir. valve output NC ▾

10 Setback differential (K) 2.0 ▾

11 First open function (min) 10 ▾

12 ECO input, function Set back ▾

13 **Boiler output settings**

Boiler output, function Boiler/Chiller ▾

Delay (min) 5 ▾

Overrun (min) 1 ▾

Output contacts normal ▾

Fig. 2-8 Expert level, base set-up

Name	Function
1 Antifreeze protection	With this button you can activate/deactivate the antifreeze function and define the threshold temperature.
2 Pump protection function	This button allows you to set the duration for the activation of the pump protection function as well as the control time in minutes.
3 Valve protection function	This button allows you to set the duration for the activation of the valve protection function as well as the control time in minutes.
4 Emergency operation	This button allows you to set the minutes until the activation of the emergency operation. Furthermore you can set the cycle duration PWM heating and cooling.
5 Pump output	You can set the type of pump used (conventional pump or high efficiency pump) at the pump output buttons. If the base station is operated in a network and defined as master, the output can be set to "global", for the change-over of all connected base stations. Depending on the type used, you can set the line-up time and the follow-up time of a conventional pump, or the minimum standstill time and the minimum running time of a high efficiency pump, in minutes. The control direction of the pump can be inverted via the control direction switching output.
6 Vacation temperature	Here you can set the temperature to be used as the reduction value when the vacations mode is activated.
7 Rank of the base in the system	Shows whether the base station is operated in stand-alone or as master or slave unit.
8 Smart Start	This button allows to activate/deactivate the Smart Start function.
9 Control direction switching outputs	Allows the parametrisation of the base station for NC (normally closed) or NO (normally open) drives.
10 Setback difference temperature	This button allows you to set how many degrees Kelvin the temperature is reduced when the external input is activated or during the reduction times of the heating programs P0 to P3.
11 First Open function (min)	This button allows you to set how long the "First Open" function is activated when the base station is started.
12 Function reduction input	With this button you select the application for the external input. The functions Reduction and Vacations are available.
13 Change over/ Boiler relay	Using the buttons Change Over (CO)/Boiler Relay you select whether the switching output shall be used for controlling a heat or cold generator or as CO Pilot. Note: In the setting CO Pilot the change-over between heating/cooling is performed via the Internet or a Room Control Unit with display. The input is no longer analysed.

2.7 Room set-up final user level

The screenshot shows the REHAU Nea Smart interface for room set-up on the 1st floor. The interface is divided into a sidebar on the left and a main content area. The sidebar includes navigation options: Overview, 1st_floor, Base Setup, Room Setup, Programs/Holidays, and System Setup. Under System Setup, there is a list of components: HW 01, SW 01.91, LAN 01.82, WEB 01.33, and 38.DE:60:01:19:CF. The main content area is titled '1st_floor' and displays a grid of settings for four rooms: Hall, Living, Office, and Bathroom. The settings are as follows:

Setting	Hall	Living	Office	Bathroom
Temperature calibration of actual values (K)	0.0	0.0	0.0	0.0
Set point temp. heat day (°C)	21.0	21.0	21.0	0.0
Set point temp. cool day (°C)	23.0	23.0	23.0	0.0
Set back heating (°C)	19.0	19.0	19.0	0.0
Set back cooling (°C)	24.0	24.0	24.0	0.0
Limit adjust. min (°C)	5.0	5.0	5.0	0.0
Limit adjust. max (°C)	30.0	30.0	30.0	0.0
Min. floor temp. comfort mode	2.0			

At the bottom right, there is a 'Code' field and a 'Continue' button.

Fig. 2-9 Final user level, room set-up

Name	Function
1 Temperature offset	If necessary, a correction factor is applied to the registration of the actual temperature in this dialogue box. Values between -2.0 to +2.0 in increments of 0.1 are possible.
2 Heating temperature day mode	You can set the target temperature for the Heating Day mode.
3 Cooling temperature night	You can set the target temperature for the Cooling Day mode.
4 Heating temperature night	You can set the reduction temperature for the Heating Night mode.
5 Cooling temperature night	You can set the reduction temperature for the Cooling Night mode.
6 Target setting range Min	You can define the lowest settable target temperature for the respective Room Control Unit Display.
7 Target setting range Max	You can define the highest settable target temperature for the respective Room Control Unit Display.
8 Floor temperature day	This dialogue box is only active when a floor sensor is used. It allows the setting of a minimum floor temperature. Please note: Values from 1.0 to 6.0 can be entered. These values correspond to an approximate floor temperature between 18 and 28 °C.
9 Code entry	The expert technician service level is accessed by entering the PIN code (1314).

2.8 Room set-up expert level

The screenshot shows the '1st_floor' configuration page in the Nea Smart expert level. The interface is organized into a grid with columns for 'Hall', 'Living', 'Office', and 'Bathroom'. The rows represent different parameters to be configured for each room. A legend at the bottom explains the options for heating/cooling lock, heating system type, and remote sensor.

Parameter	Hall	Living	Office	Bathroom
Temperature calibration of actual values (K)	0.0	0.0	0.0	0.0
Set point temp. heat day (°C)	21.0	21.0	21.0	0.0
Set point temp. cool day (°C)	23.0	23.0	23.0	0.0
Set back heating (°C)	19.0	19.0	19.0	0.0
Set back cooling (°C)	24.0	24.0	24.0	0.0
Limit adjust. min (°C)	5.0	5.0	5.0	0.0
Limit adjust. max (°C)	30.0	30.0	30.0	0.0
Min. floor temp. comfort mode	2.0			
Heating/cooling lock	Normal	Normal	Normal	Normal
Heating system type	0	0	0	0
Set point temperature can be set at the room control unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tamper proof lock ON/OFF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tamper proof code	0000	0000	0000	0000
Remote sensor	2	0	0	0

Legend for Heating/cooling lock: 0 FH standard - 1 FH low energy - 2 Radiator - 3 Convector passive - 4 Convector active

Legend for Remote sensor: 0 No additional sensor - 1 Dew point sensor - 2 Floor sensor - 3 Room sensor

Fig. 2-10 Expert level, extended room set-up

Name	Function
1 Approval of operating modes	With this button you select the possible operating modes (heating/cooling, only heating or only cooling) for the respective zone.
2 Heating system	With this button you select the tempering system used in the respective heating zone.
3 Operating lock code-protected	With this check box you select whether the operation of the Room Control Unit shall be protected by a PIN code (only available for Room Control Unit Display.)
4 Operating lock code	In this entry box you define a PIN code for a desired operating lock (only available for Room Control Unit Display).
5 Display illumination(s) (only BUS variant)	The room control units of the BUS variant are equipped with background illumination. The set time indicates how long the display will be illuminated after the operation.
6 External sensor	The Room Control Unit D can be equipped with an additional sensor. Here you can parametrise which type of sensor is used.

2.9 Programs/Vacations

The screenshot shows the REHAU Nea Smart interface for the 1st floor. It features a sidebar with navigation options: Overview, 1st_floor, Base Setup, Room Setup, Programs/Holidays, and System Setup. The main content area displays four programs (P0, P1, P2, P3) with 24-hour bar charts. Each bar chart has a 'Comfort period' (red) and a 'Setback period' (grey). Red callout boxes 1, 2, and 3 highlight the program selection, comfort periods, and setback periods respectively. Below the programs is a 'Holiday' section with a 'Holiday' toggle (currently inactive), and fields for 'Start (DD/MM/YYYY)' and 'End (DD/MM/YYYY)' with 'Confirm' and 'Cancel' buttons. A red callout box 4 highlights the holiday function.

Fig. 2-11 Administration of time programs and vacation function

Name	Function
1 Program P0 to P3	Four heating programs allow a suitable adaptation of the installation to your requirements.
2 Comfort time	Comfort times during which the installation sets the desired comfort temperature are marked red. Comfort times are activated or deactivated by simply clicking the corresponding bars. A maximum of 4 blocks with comfort times can be set per heating program.
3 Setback time	Setback times during which the installation changes to the economy mode are marked in grey. The desired times are activated or deactivated by simply clicking the corresponding bars.
4 Vacations	Enter your vacations data here. The temperature is reduced to the set vacations temperature during this time. The cooling mode is not performed during vacations.

2.10 System set-up

Fig. 2-12 System set-up

Name	Function
1 Setting date and time	Here you set time and date of the base station.
2 Winter/summer time	With this button you activate/deactivate the automatic toggle between summer and winter time.
3 Network settings	If the option DHCP is activated, the router/switch of your home network automatically assigns an IP address to the base station. DHCP must be deactivated for manual assignment. Subsequently the fields IPv4 address and subnet mask are activated for editing.
4 Temperature display	These buttons allow to change the temperature values from °C to °F and vice versa.
5 Operating mode	This button allows to change between the heating modes Heating and Cooling. This button can only be used if CO pilot is active. If the CO input is used, the current status (heating or cooling active) is displayed here.
6 Cloud function	These entry fields allow the activation of the cloud functionality (remote access over the Internet) for the base station. You can find further information of this in section 1.4. Note: If several base stations are operated in the same network, an individual Local Port and an individual Source Port must be allocated manually to every base station, up to software version 1.70. It is recommended to increase both ports by +1 with respect to the previously registered base.

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