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**EN**

English

## **Smile Room Connect System Installation Instructions**

MU1H-0635GE51 R1016

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# 1 Safety instructions

## 1.1 Intended use

- The SRC-10 (Smile Room Connect) can be operated via a smart phone and an app. You can therefore control the temperatures in individual rooms through several wireless devices.
- The devices are not intended for children and should not be used as toys.
- Store or dispose the packaging material in a childproof manner.
- Do not disassemble the device. If errors occur, please inform your installer.

## 1.2 Electric installation

The electric installation, start-up, and maintenance of the device must only be carried out by qualified electricians who are authorized by the operator. The specialists must have read and understood this operating manual and must follow its instructions. The requirements of a qualified electrician are:

- Knowledge of the relevant electrical regulations (e.g., DIN VDE 0100 Part 600, DIN VDE 0100-722) and the applicable national regulations.
- Knowledge of the general and specific safety and accident prevention regulations.
- An ability to identify risks and avoid potential hazards.



### **WARNING**

#### **Contains live parts**

Touching live parts may lead to electric shock, burns, or death.

Observe the following points before working on the electric system:

- Disconnect the system.
- Secure against restarting.

## 2 System Description

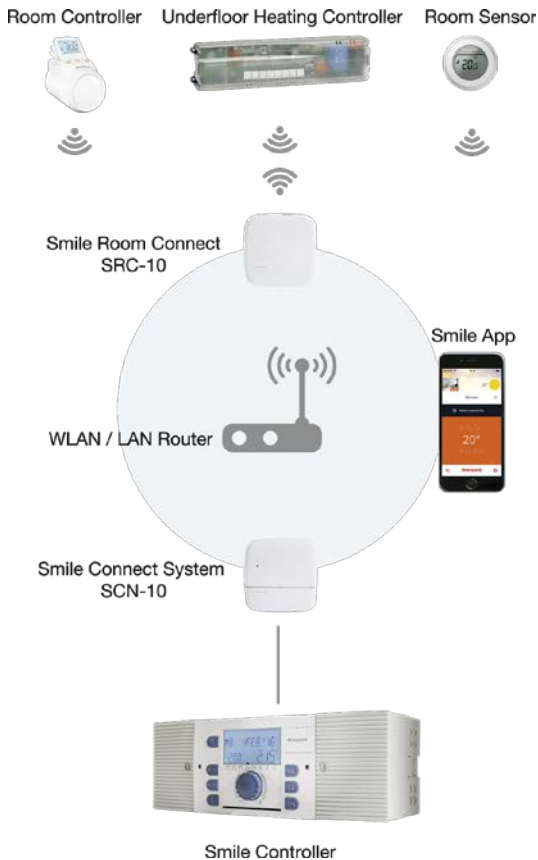


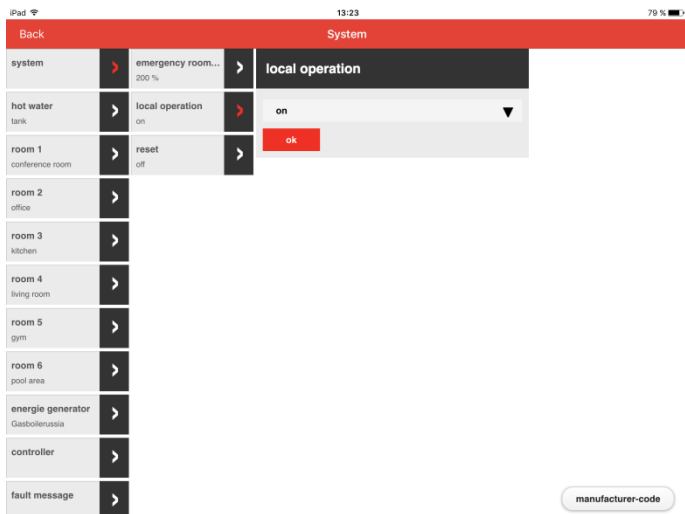
Fig. 1: SRC-10 system overview

The SRC-10 is an upgradable module for the Smile Connect System. Individual room control in accordance with EN 15232 is possible through a boiler connection. To ensure individual room control, there are different components that allow the temperature in each room to be selected. Remote access via an app is also possible.

The basic settings (min-max values, frost protection value, etc.) for individual rooms are given in the SCN-10, **Pro** menu under room groups. From these settings, the system calculates a flow set point which is transmitted to the controller. For more information on the basic settings, see chapter 4.2 Rooms basic settings.

## 2.1 Local operation for HR92 and T87RFxx

You can turn off local operations for the radio components HR92 and T87RFxx via the **Pro** menu. Local operation on the devices is ignored with this setting.



## **Smile Room Connect**

The SRC-10 connects the Smile App wirelessly to the radiator controllers and to the underfloor heating controllers in up to 16 rooms, and connects individual room regulation to the heat generator.

## **T87RFxx**

T87RFxx is a wireless digital temperature control with a room sensor that can set individual temperatures.

## **HR92 and HCE80**

HR92 and HCE80 are radio-controlled regulators for radiators or for underfloor heating. These communicate with Smile Connect through a radio protocol optimized for battery applications.

## **HCF82**

HCF82 is a wireless digital room temperature sensor that measures room temperature.

## **Smile App**

The Smile App is installed on mobile devices such as smart phones or tablets (iOS or Android) and is used to operate the SRC-10. You can download the app using the search term "Honeywell Smile" from the App Store and from the Google Play Store free of charge.

## **WLAN/LAN Router (provided by the customer)**

The customer's WLAN/LAN router allows the SDC regulator and Smile Connect to operate and communicate via the Smile App.

## **2.2 Scope of supply**

Check the content of the packaging. The following components are included:

- Smile Room Connect (SRC-10) with integrated WiFi module (x 1),



- Network cable (x 1),
- Wall power supply for Smile Room Connect (x 1),
- Operating instructions (x 1).

### **2.3 Accessories**

The following component is available as an accessory and is essential for start-up:

- SCI-10 installation kit, consisting of the USB-LAN adapter and a network cable.

### **3 Installation and electrical connection**

Follow the specified sequence during installation and start-up of the SRC-10.

1. Install the SCN-10 completely.
2. Install the SRC-10.

#### **3.1 Prerequisites and requirements**

The SCN-10 requires an Ethernet network (LAN/WLAN) including router.

In order to use the SRC-10, you will need a smart phone or tablet (iOS versions which are under support of Apple, or Android 4.x or higher from 8" with a 3G/4G mobile communications system (UMTS, LTE)) as well as an on-site WLAN.

For start-up, you will need a standard laptop and the SCI-10 installation kit, consisting of the USB-LAN adapter and a network cable.

### 3.1.1 Installation

The SRC-10 is provided as a table-top device. Find a suitable installation location that fulfills the following requirements:

- A 230-V earthed wall socket must be available.
- The installation location must be within the radio coverage area.
- A LAN connection to the customer's network must be available, or alternatively the installation location must be within the customer's WLAN network coverage in order to use the integrated WLAN module.

#### ► NOTE

The radio coverage is linked to the height of the installation location. The SRC-10 should be placed at a height of 0.70-2 m (e.g., on top of a cupboard). This height ensures the best possible radio coverage. Position the SRC-10 at the selected installation location.

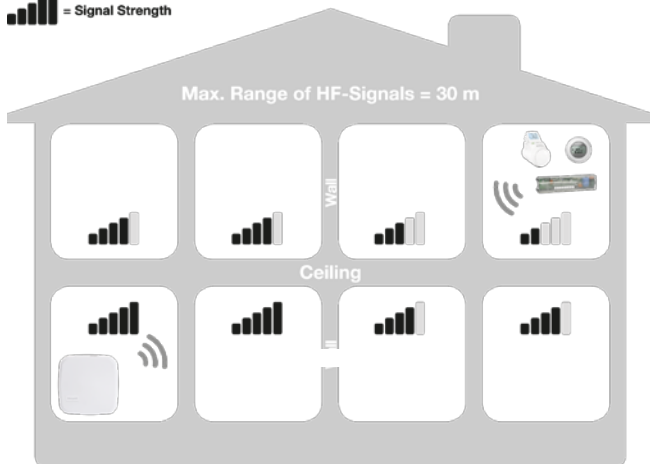


Fig. 2: SRC-10 radio coverage

### 3.1.2 Electrical connection

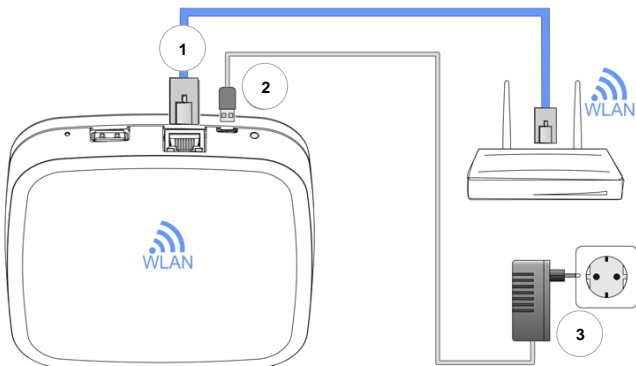


Fig. 3: Smile Room Connect SRC-10

1. Connect the SRC-10 to the customer's LAN network:
  - Via a network cable into an available Ethernet port on the customer's internet router or switch. The length of the total cable from the SRC-10 to the next switch or router must not exceed 100 m.
  - Alternatively, via a WLAN connection using the integrated WLAN module in the SRC-10. Ask the customer for their WLAN network access data—you will need this during the start-up/initial setup, see chapter 4 Start-up/Initial setup.
2. Connect the AC adapter provided.
3. Plug the AC adapter into an electrical outlet.

## 4 Start-up/Initial setup

### ► NOTE

Before you can configure the SRC-10, you must set up the rooms that are to be operated in advance in the SCN-10 and activate the individual room regulator, see chapter 4.1, SCN-10 configuration.

Start-up includes configuring the SCN-10 via a browser (e.g., Internet Explorer, Chrome, Firefox) on the connected PC/laptop.

Before start-up, please select the following LAN options in the browser's local network settings:

- a. Activate **DHCP (automatic address assignment)**.
- b. Deactivate all **proxy server** options.

### ► NOTE

Additional costs may be incurred owing to an update of the device software being installed over the internet. This will depend on the customer's internet tariff.

## 4.1 SCN-10 configuration

The SCN-10 is configured on a PC/laptop using the setup wizard (see detailed description in the Smile Connect System installation instructions, MU1H-0603GE51, chapter 4.1).

Plug the **USB-LAN adapter** into an available USB port on the upper side of the **Smile Connect**.

Then connect the **USB-LAN adapter** via an Ethernet cable to the network port of the PC/laptop.

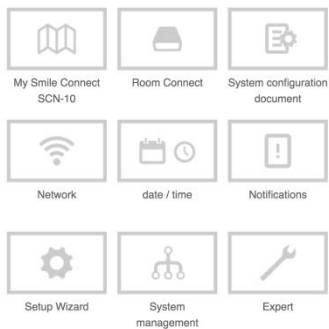
Connect the **USB-LAN adapter** via an Ethernet cable to the network port of the PC/laptop.

Switch on the PC/laptop and open the browser.

The setup wizard will start automatically in the browser shortly after.

If the setup wizard does not start automatically, then please enter the address <http://10.0.0.1> in the address bar of the browser.

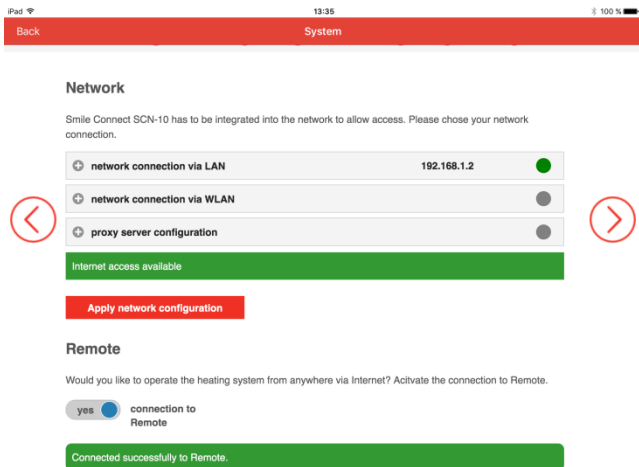
The **SCN-10 Main menu** will appear.




1. Click on **Setup Wizard**.



## 2. The **Network** menu will appear.



- To access the next menu, press the  button.
- The **Energy Generator** screen will appear.

## energy generator

1	<b>energy generator Gasboiler</b> type controller (Smile BUS)   name Gasboiler	✓
2	<b>Domestic hot water</b> not use	✓
3	<b>Single room heat regulation</b> Here you can configure the individual room control.  Turn off the individual room control when gateway is not use.  Single room heat regulation active ▼	

ok

5. Click on **Single room heat regulation** and select **On** in the drop-down menu.
6. Activate individual room regulation by pressing **OK**.


## 7. The **Rooms** screen will appear.



### room mapping

Register the rooms, which are about to be controlled with Smile Connect SCN-10



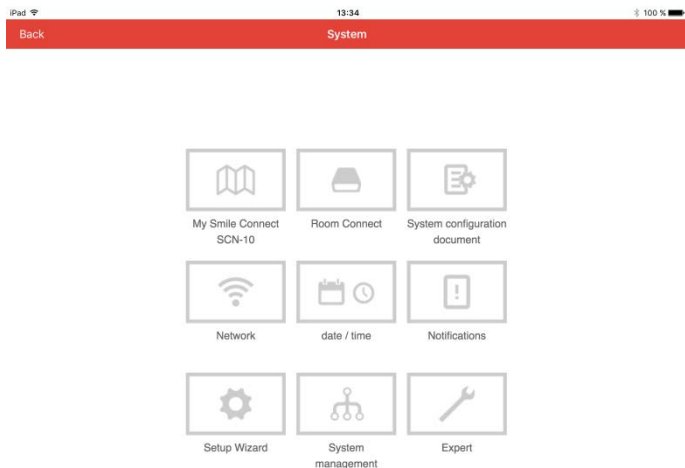
- Using the  button, you can set up the rooms that are to be operated. More information on setting up rooms can be found in the Smile Connect System installation manual, MU1H-0595GE51, chapter 4.1, sections 20-21.

### ▶ **NOTE**

Please note that special characters (") cannot be used when entering room names.

## 4.2 Rooms basic settings

The following chapter shows the menu for the basic settings for individual rooms on the SCN-10. The settings for each room can be selected individually. Room 1 is shown as an example.



## 4.2.1 General room information

Under **Information**, you can see general room information.

Back		System	
system	>	information	>
		operation mode	heating mode
room 1 conference room	>	basic settings	>
		state	heating
room 2 sleeping room	>	room settings	>
		room setpoint	22.0 °C
room 3 office	>	heating mode	>
		request	44.0 °C
energie generator Gasboller	>	reset	>
		flow	117.5 °C
controller	>		
fault message	>		
config	>		

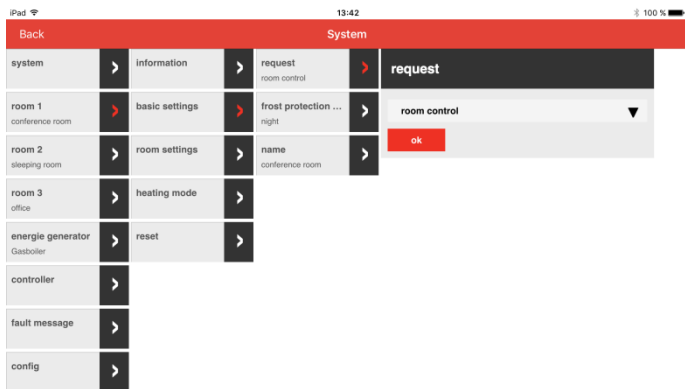
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## 4.2.2 General basic settings

Under **Basic Settings**, you can set requests, room deactivation, frost protection mode, and a default name.

### 4.2.2.1 Define requests

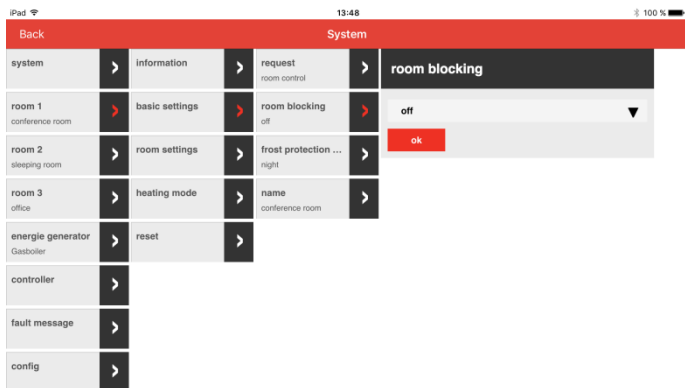
Here you can set the room regulation.



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### 4.2.2.2 Set room blocking

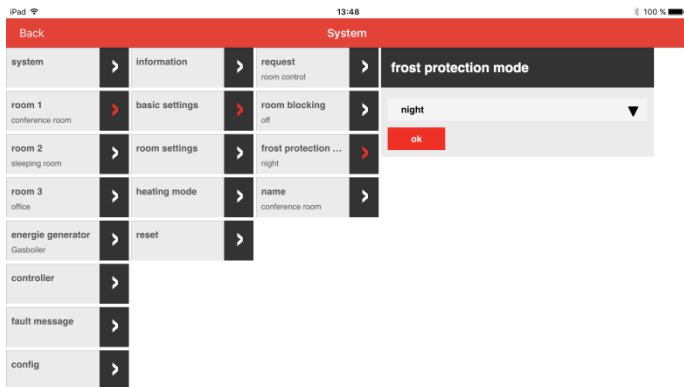
Here you can choose between **Room blocking Off** and **0.1K-5.0K**. If the current room temperature exceeds the room set value, then the request to the heat generator will turn off.



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### 4.2.2.3 Activate frost protection mode

Here you can choose between **Frost Protection Temperature** or **Night**.



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#### 4.2.2.4 Change room names

Here you can change the name of the room.



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## 4.2.3 Adjusting room settings

Specific settings can be made to the rooms under **Room settings**.

### 4.2.3.1 Set room maximum temperature

Here you can set the maximum room temperature.

The screenshot shows an iPad interface with a red header bar containing 'Back' and 'System'. The main content is a grid of settings. The 'room 1' row is expanded to show 'room maximum' set to '35.0 °C'. A red 'ok' button is visible below the temperature value. The status bar at the top shows 'iPad', signal strength, '13:49', and '100%' battery.

Back		System	
system	>	information	>
room 1 conference room	>	room maximum 35.0 °C	>
room 2 sleeping room	>	room maximum 35.0 °C	>
room 3 office	>	basic settings	>
energie generator Gasboiler	>	room settings	>
controller	>	comfort hi 22.0 °C	>
fault message	>	comfort lo 20.0 °C	>
config	>	heating mode	>
		night 5.0 °C	>
		start optimization off	>
		offset fast heating 2.0 K	>
		offset economy -2.0 K	>

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### 4.2.3.2 Comfort hi – set high comfort temperature

Here you can set the increased comfort temperature.



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### 4.2.3.3 Comfort low – set low comfort temperature

Here you can set the reduced comfort temperature.



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### 4.2.3.4 Set night temperature

Here you can set the night temperature.



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## 4.2.3.5 Offset fast heating setting

Here you can select fast heating. You can choose between **0.5 K** and **4.0 K**.

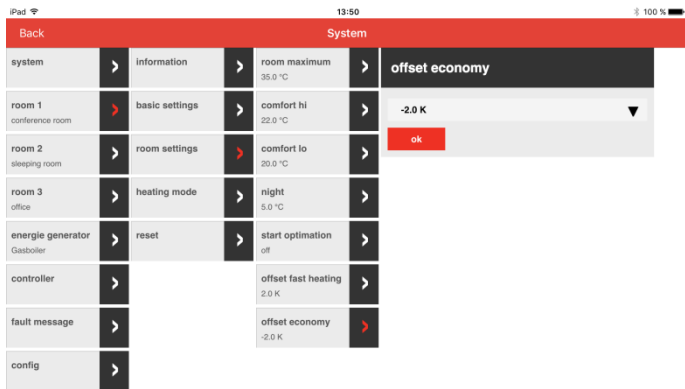
The screenshot shows a mobile application interface for system settings. At the top, there is a red header bar with 'Back' on the left and 'System' in the center. Below the header, a grid of settings is displayed. The 'offset fast heating' setting is highlighted in a dark grey bar. To its right, a dropdown menu shows '2.0 K' with a downward arrow. Below the dropdown is a red 'ok' button. The settings grid includes:

Category	Sub-category	Value	Action
system	information	room maximum 35.0 °C	>
room 1 conference room	basic settings	comfort hi 22.0 °C	>
room 2 sleeping room	room settings	comfort lo 20.0 °C	>
room 3 office	heating mode	night 5.0 °C	>
energie generator Gasboiler	reset	start optimization off	>
controller		offset fast heating 2.0 K	>
fault message		offset economy -2.0 K	>
config			>

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### 4.2.3.6 Offset economy setting

Here you can set an offset economy value. You can choose between **0.5 K** and **4.0 K**.



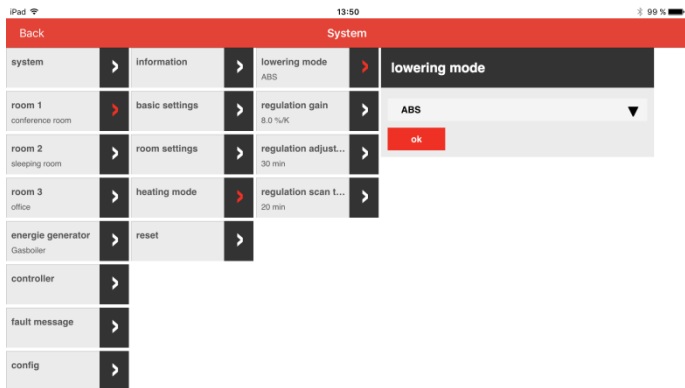
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## 4.2.4 Set up heating mode

Under **Heating mode**, you can set the offset heating operation settings.

### 4.2.4.1 Set lowering mode

Here you can choose between **ECO mode** and **Lowering mode (ABS)**.

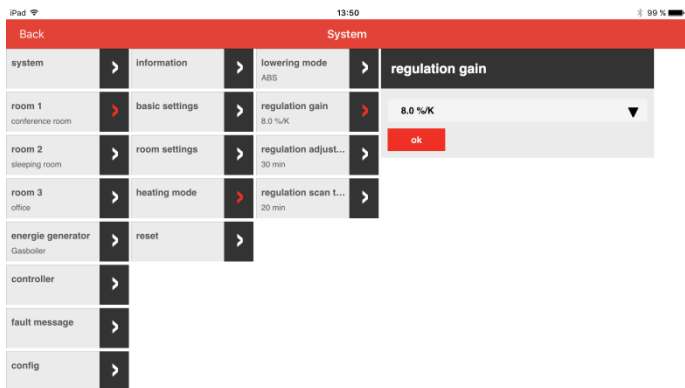


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#### 4.2.4.2 Regulation gain

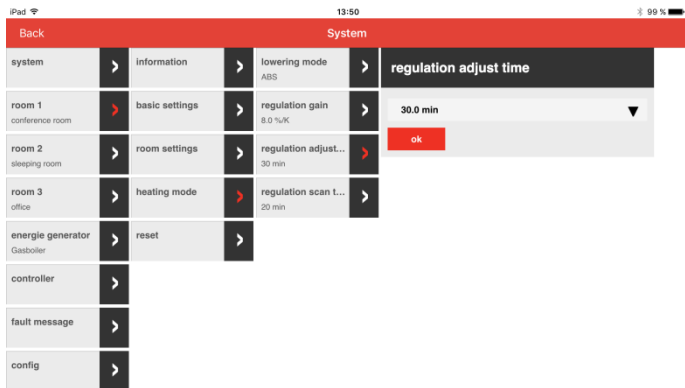
You can choose between **1.0%/K** and **100%/K**.



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### 4.2.4.3 Regulation adjust time

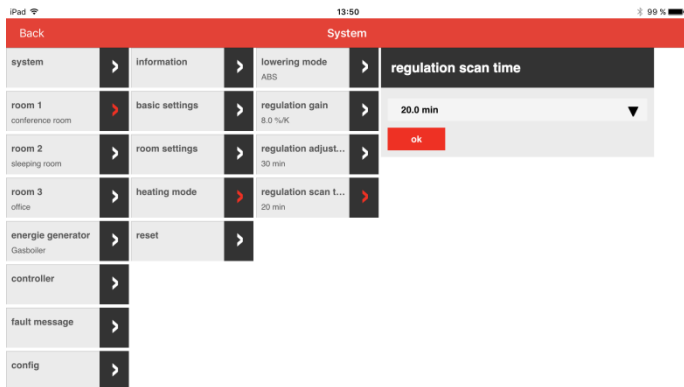
Here you can choose between **5.0 min** and **240.0 min**.



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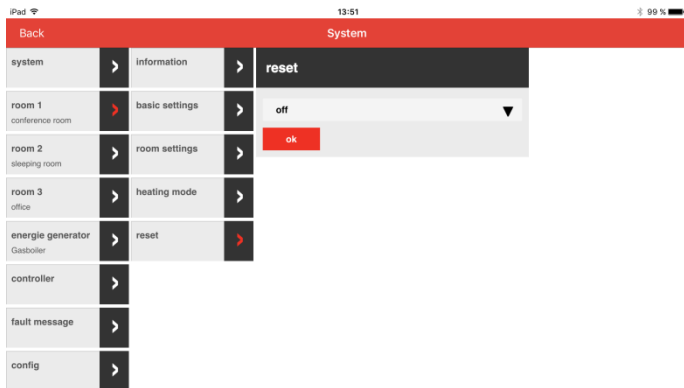
#### 4.2.4.4 Regulation scan time

Here you can choose between **1.0 min** and **300.0 min**.



## 4.2.4.5 Reset

Here you can choose between **Off** and **Reset**.



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### 4.3 SRC-10 start-up

After configuring the SCN-10, you can begin starting up the SRC-10.

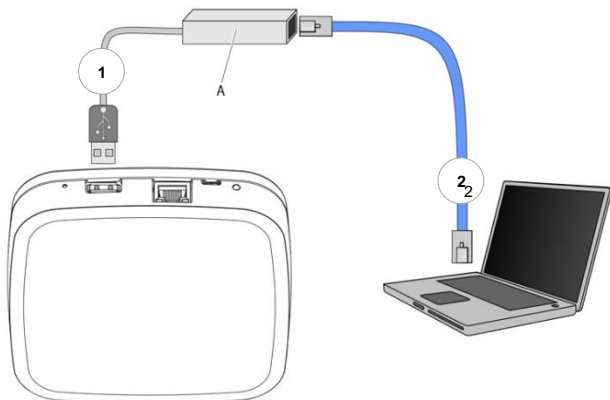


Fig. 4: Initial setup SRC-10

The initial setup of the SRC-10 is performed via the setup wizard menu on the browser of the connected PC/laptop.

In the network settings of the PC/laptop, **DHCP** (automatic address assignment) must be activated and no **proxy server** must be activated.

1. Connect the SCI-10 USB-LAN adapter from the installation kit to the SRC-10 and the PC/laptop:
2. Plug the SCI-10 USB-LAN adapter into an available USB port on the upper side of the SRC-10.
3. Turn on the PC/laptop. Connect the SCI-10 USB-LAN adapter to the network port of the PC/laptop.

The setup wizard will start automatically in the browser window of your laptop shortly after.

If the setup wizard does not start automatically, then please enter the address <http://10.0.0.1> in the address bar of the browser.

Follow the instructions of the setup wizard. If the LED on the side of the SRC-10 has a steady GREEN light, then the SRC-10 connected successfully to the customer's network, the Smile Connect, and the internet.

## 5 Setup wizard

The setup wizard of the SRC-10 takes you through the basic settings.

### Log in

1. Log in with the access data for the SRC-10.

### Anmeldung

Bitte melden Sie sich am Room Connect SRC-10 an.

Smile Connect nutzt Software-Module, die von den Urhebern als Open Source zur Verfügung gestellt wird. Klicken Sie [hier](#) für mehr Informationen.

Passwort:


### NOTE

You do not need to log in into the system during the initial setup.

2. **The Setup wizard** will appear.



Room Connect



Radio components



Network

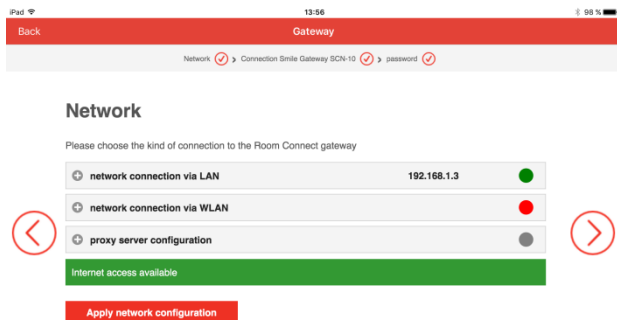


Setup Wizard

System  
Management

3. Click on Setup Wizard.
4. The **Network** screen will appear.





## Network

A functioning network in your house or apartment is required for installation. An internet connection is not required for this. If you don't have an internet connection, you can only operate the system with your smart phone or tablet from your home and not while on the move. You also will be unable to load any updates for the Smile Connect and Smile Room Connect.




### NOTE

Access to the SRC-10 is only possible via an internal network.

## Establishing a network connection


- LAN connection via DHCP, recommended (automatic installation of the internet connection),
  - LAN connection with manual settings (optional),
  - Setting up a WLAN connection (optional),
  - Setting up a proxy connection (optional).
5. You can access the **Connection Smile Gateway SCN-10**

menu by pressing the  button.



## Connecting to the SCN-10

Select the **SCN-10** that you wish to connect to the **SRC-10**.

6. To access the next menu, press the  button.
7. The **Change password** screen will appear.

## Password

Enter a password to access the SRC-10.



### NOTE

If you have already changed the password of your Smile Room Connect, then you can skip this section. If you'd like to change your password again, then please click on Change password.



## Change password

You've already changed your Room Connect SRC-10 password and can skip this step. If you still want to change the password, please click the button below.

Change password



The password can be changed later in the **Room Connect** menu.



### NOTE

You cannot access the **SRC-10** menu without a password. As a result, keep the password in a safe place.

## 6 Setting up the radio components

The SRC-10 must be set up completely according to chapter 4.3 SRC-10 start-up. The LED on the side should have a GREEN light.

1. Log in with your chosen password.
2. Register all radio components on the SRC-10 according to the following descriptions.
3. After setting up all the radio components, the USB-LAN adapter can be removed.



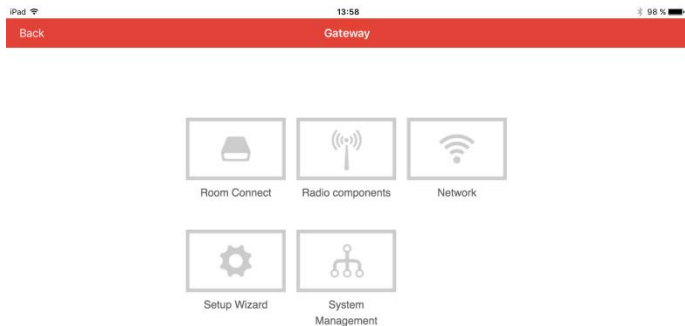
### NOTE

Follow the installation manuals for the individual radio components.

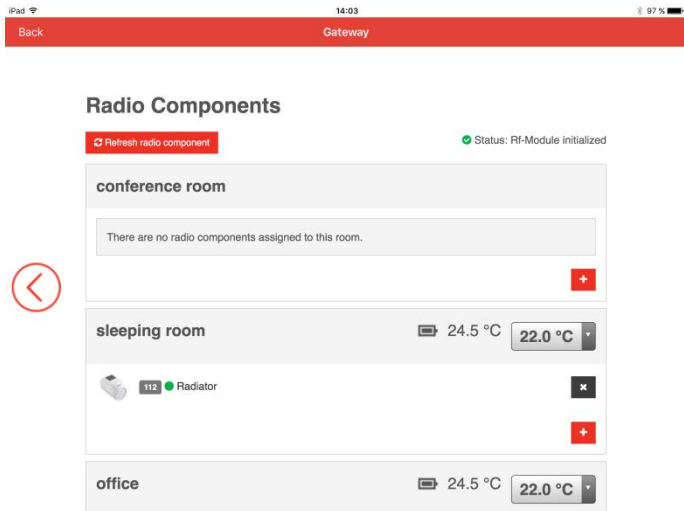
You can access the main menu by typing the address <http://10.0.0.1> in the address bar of the browser.

## 6.1 General description of the binding process

### 1. Select **Radio components**.




2. The **Radio components** screen will appear.

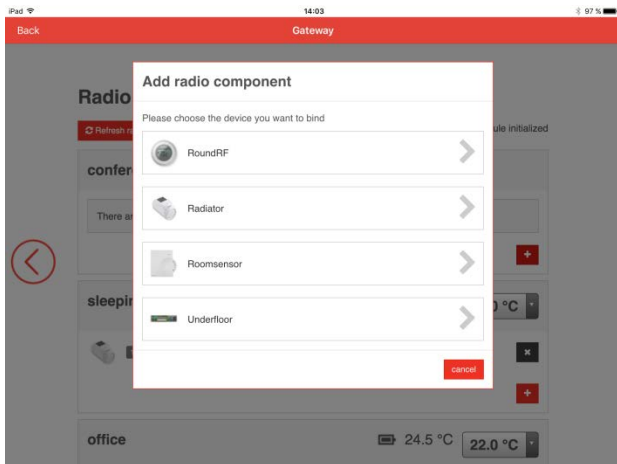


**NOTE**

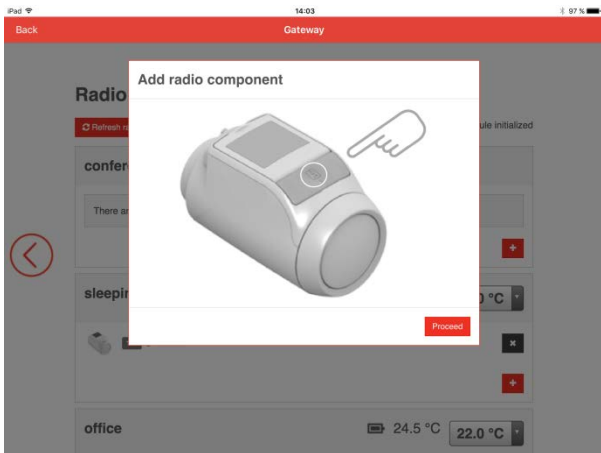
The rooms that were set up in SCN-10 are automatically transferred to the SRC-10 and will be displayed.

3. You can add a new radio component by pressing the  button.

- The **Add radio component** screen will appear.



- Select the radio components that you'd like to add.
- The **Add radio component** screen will appear.

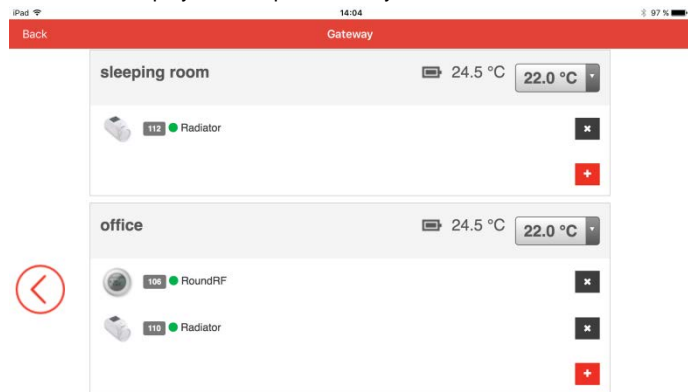


7. Follow the instructions on the screen of the respective radio component.
8. Click on **Proceed** to start the binding process between the radio component and the SRC-10.



### 6.1.1 Display description





Once the binding process is complete, the components in the selected room will be displayed. This process may take a few seconds.



	Raum2	Room name
		Battery status
	22.5 °C	Current room temperature
	20.0 °C	Setting the desired room temperature
	●	Radio reception very good
	●	Radio reception adequate
	●	No radio reception
	+	Adding a radio component
	×	Removing a radio component

The binding process for the individual radio components is described in chapter 6.2 et. seq.

## 6.2 Binding radiator controller HR92

1. Insert batteries.
2. Press the  button once: NO BIND should appear on the display screen.
3. Press the  button for 5 seconds until BIND appears on the display screen.
4. Press the  button once: BINDING should appear on the display screen.
5. You should see SUCCESS on the user interface (if not, go back and reconnect).
6. The name of the assigned room should appear on the HR92 display when you press the  button.

## 6.3 Binding room sensor HCF82

1. Press the bind key in the bottom right-hand corner. The red LED will flash.
2. You should see SUCCESS on the user interface (if not, go back and reconnect).

## 6.4 Binding T87RFxx

1. Press and hold the right sensor button for approx. 10 seconds and then start the binding process.




2. The notification "bnd" will appear on the screen.
3. Briefly press the right sensor button again to send the binding signal. Both the ')))' and '■□' symbols will flash until the binding process is complete.


## 6.5 Binding underfloor heating controller HCE80 or HCC80

### ▶ NOTE

A underfloor heating controller can be assigned to a room only if a set value adjuster or a room sensor has been previously assigned to the room.

1. Press and hold the Bind button  on the underfloor heating controller until the LED of the corresponding room (zone) flashes.
2. The LED of the room will flash with a GREEN light.
3. Click on the **Continue** button on the SRC-10.
4. If the binding process is successful, then the yellow LED of the underfloor heating controller will light up.
5. Room binding is complete.

In order to connect further rooms, repeat the process:

1. Press the Bind button  on the underfloor heating controller twice (skip flashing red LED).  
The green LED of the next room will flash.

## 6.6 Perform system test

When all the devices are connected to the SRC-10 and are installed, perform a brief system test. You can perform a simple function test of the heating system by setting the room set value temperature of each room to the corresponding minimum and maximum temperatures. You can then check whether the changes to the respective devices are displayed and/have been performed. For battery-operated devices, it may take up to four minutes for the device to respond to manual changes.

## 7 System architecture

Below, we have summarized several notes that affect the entire system architecture.

1. If several radiator controllers (HR92) have been configured in a room, then the connected radiator controller which was bound first, is considered as the lead regulator.
2. As soon as one of the two T87RFxx or HCF82 room sensors has been configured, this room sensor will be used for room regulation.
3. The battery status of the components is always displayed for the entire room and reported at least once a day. After a battery change, the status is shown immediately.

The following battery statuses are displayed:



Battery status low

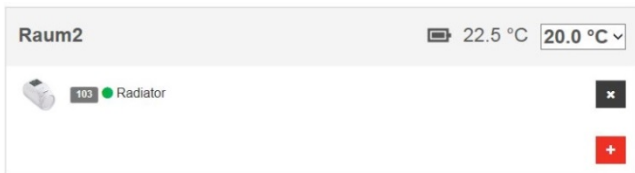


Battery status OK

No display    Battery status unknown

4. In order to increase the number of thermal actuators, several rooms (1-8) can be assigned to one room to the underfloor heating controller (HCE80).

5. The signal strength of the last received message is shown by the following color levels:
- Radio reception very good
  - Radio reception adequate
  - No radio reception

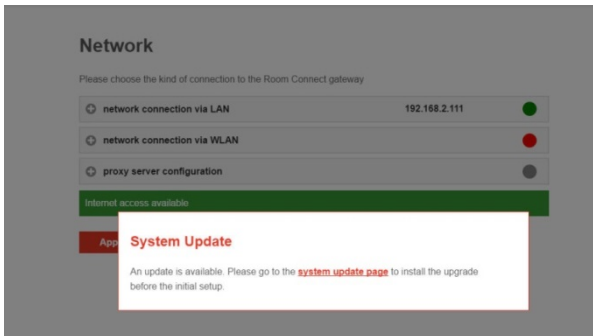


6. If the SRC-10 is defective, all radio components must be reconnected after the device has been replaced.

## 8 Perform system update

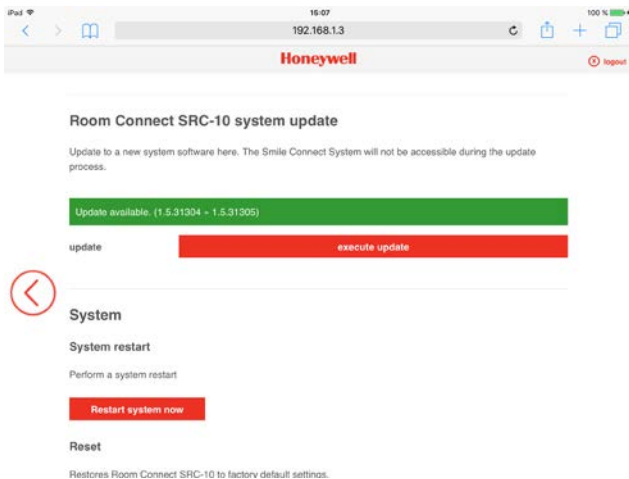
Setting up **System Updates** can be carried out under the **System Administration** menu.

As soon as a system update is required, the following message will appear:



1. To start the system update, click on **System Update**.

- The **Room Connect SRC-10 system update** screen will appear.

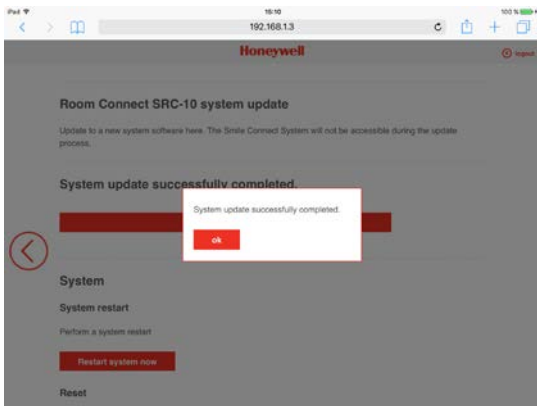


- Click on **execute update**.
- The update will start.





5. Confirm the update by clicking **OK**. You can now continue with the operation.



## 9 Technical data

Installation	Table-top device
Operating system	Linux
Connections	<ul style="list-style-type: none"><li>• USB 2.0</li><li>• RJ45 Ethernet</li><li>• Mini USB for power supply</li><li>• Integrated WiFi module</li></ul>
Power supply	Euro wall plug transformer 5 V DC, 1 A
Environmental conditions <ul style="list-style-type: none"><li>• Storage temperature</li><li>• Operating temperature</li></ul>	-25 to +60°C -10 to +50°C
Safety standard	EN 60730
Dimensions	125 x 125 x 26 mm (LxWxH)
Weight	170 g
Color	Traffic white RAL 9016



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