Product manual | **26.11.2024**

Electronic room temperature controller insert

1094 USITA-BT
1095 UTA-BT
1096 UTA-BT
1099 UHKTA-BT

BUSCH-JAEGER

1 Notes on the instruction manual

Please read through this manual carefully and observe the information it contains. This will assist you in preventing injuries and damage to property and ensure both reliable operation and a long service life for the device.

Please keep this manual in a safe place.

If you pass the device on, also include this manual along with it.

Busch-Jaeger accepts no liability for any failure to observe the instructions in this manual.

If you require additional information or have questions about the device, please contact Busch-Jaeger or visit our Internet site at:

www.BUSCH-JAEGER.de

2 Trademarks

Die Wortmarke Bluetooth® und die Bluetooth®-Logos sind eingetragene Marken von Bluetooth SIG, Inc.. Jede Verwendung dieser Marken durch Busch-Jaeger Elektro GmbH erfolgt unter Lizenz. Andere Marken und Handelsnamen sind Eigentum ihrer jeweiligen Eigentümer.

3 Safety

The device has been constructed according to the latest valid regulations governing technology and is operationally reliable. It has been tested and left the factory in a technically safe and reliable state.

However, residual hazards remain. Read and adhere to the safety instructions to prevent hazards of this kind.

Busch-Jaeger accepts no liability for any failure to observe the safety instructions.

3.1 Information and symbols used

The following Instructions point to particular hazards involved in the use of the device or provide practical instructions:

Danger

Risk of death / serious damage to health

– The respective warning symbol in connection with the signal word "Danger" indicates an imminently threatening danger which leads to death or serious (irreversible) injuries.

Warning

Serious damage to health

– The respective warning symbol in connection with the signal word "Warning" indicates a threatening danger which can lead to death or serious (irreversible) injuries.

Caution

Damage to health

– The respective warning symbol in connection with the signal word "Caution" indicates a danger which can lead to minor (reversible) injuries.

Attention

Damage to property

– This symbol in connection with the signal word "Attention" indicates a situation which could cause damage to the product itself or to objects in its surroundings.

NOTE

This symbol in connection with the word "Note" indicates useful tips and recommendations for the efficient handling of the product.

The following safety symbols are used in the operating manual:

This symbol alerts to electric voltage.

3.2 Intended use

The devices described in this manual are thermostat inserts with integrated data storage. All devices are intended for flush-mounting.

1095 UTA-BT / 1096 UTA-BT, 1099 UHKTA-BT / 1094 USITA-BT

The devices 1095 UTA-BT, 1096 UTA-BT, 1099 UHKTA-BT and Electronic room temperature controller insertare intended for the following.intended for the following:

- Operation according to the listed technical data
- Installation in closed and dry interior rooms
- Use with the connecting options available on the device
- For the regulation of the temperature for heating systems and/or cooling systems depending on the device version.

1099 UHKTA-BT

- Use of the device additionally for cooling via 2-pipe or 4-pipe heating systems

The intended use also includes adherence to all specifications in this manual.

Only suitable for installation in flush-mounted boxes according to DIN 49073-1, Part 1, or in suitable surface-mounted housings.

3.3 Improper use

Each use not listed in see chapter 3.2 “Intended use“ on page 6 is deemed improper use and can lead to personal injury and damage to property.

Busch-Jaeger is not liable for damages caused by use deemed contrary to the intended use of the device. The associated risk is borne exclusively by the user/operator.

The device is not intended for the following:

- Unauthorized structural changes
- Repairs
- Outdoor use
- The use in bathroom areas

3.4 Target group / Qualifications of personnel

3.4.1 Operation

No special qualifications are needed to operate the device.

3.4.2 Installation, commissioning and maintenance

Installation, commissioning and maintenance of the device must only be carried out by trained and properly qualified electrical installers.

The electrical installer must have read and understood the manual and follow the instructions provided.

The electrical installer must adhere to the valid national regulations in his/her country governing the installation, functional test, repair and maintenance of electrical products.

The electrical installer must be familiar with and correctly apply the "five safety rules" (DIN VDE 0105, EN 50110):

1. Disconnect
2. Secure against being re-connected
3. Ensure there is no voltage
4. Connect to earth and short-circuit
5. Cover or barricade adjacent live parts

3.5 Safety instructions

Danger - Electric voltage!

Electric voltage! Risk of death and fire due to electric voltage of 100 … 240 V.

Dangerous currents flow through the body when coming into direct or indirect contact with live components. This can result in electric shock, burns or even death.

- Work on the 100 … 240 V supply system may only be performed by authorised and qualified electricians.
- Disconnect the mains power supply before installation / disassembly.
- Never use the device with damaged connecting cables.
- Do not open covers firmly bolted to the housing of the device.
- Use the device only in a technically faultless state.
- Do not make changes to or perform repairs on the device, on its components or its accessories.
- Keep the device away from water and wet surroundings.

Caution! - Risk of damaging the device due to external factors!

Moisture and contamination can damage the device.

- Protect the device against humidity, dirt and damage during transport, storage and operation.

4 Information on protection of the environment

4.1 Environment

Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with domestic waste.

– The device contains valuable raw materials which can be recycled. Therefore, dispose of the device at the appropriate collecting depot.

All packaging materials and devices bear the markings and test seals for proper disposal. Always dispose of the packaging material and electric devices and their components via the authorized collecting depots and disposal companies.

The products meet the legal requirements, in particular the laws governing electric and electronic devices and the REACH ordinance.

(EU Directive 2012/19/EU WEEE and 2011/65/EU RoHS and 2009/125 Ecodesign)

(EU REACH ordinance and law for the implementation of the ordinance (EC) No.1907/2006)

5 Setup and function

5.1 Scope of supply

The scope of supply contains the room temperature controller insert .

Separately available:

- 6226/T Temperature sensor
- Available in different design versions

Notice

- 1095 UTA-BT, 1094 USITA-BT and 1099 UHKTA-BT the following actuating drive possible: TSA/K230.2
- 1096 UTA-BT the following actuating drive possible: TSA/K24.2

5.2 Device overview

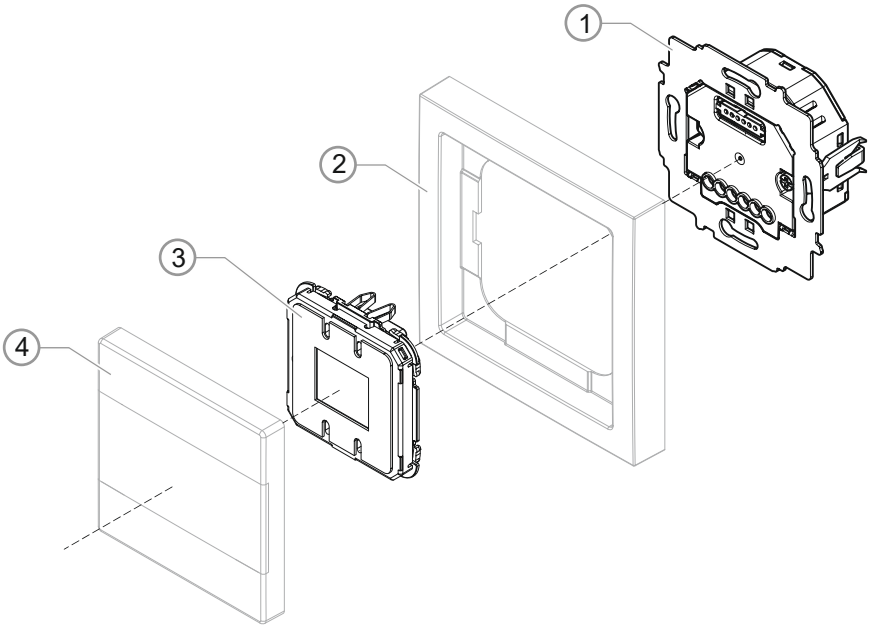


Fig. 1: Overview of devices

[1] FM device insert
[2] Cover frame*
[3] Control element
[4] Design cover*

*Not included in the scope of delivery

5.2.1 Control elements

Operation is only possible with the associated control element and suitable design cover. The control element and design cover are latched onto the insert together with the cover frame.

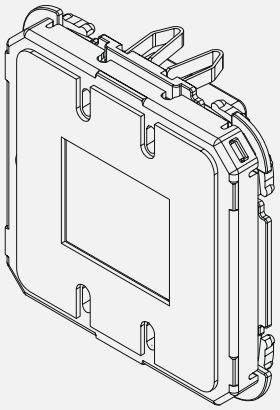
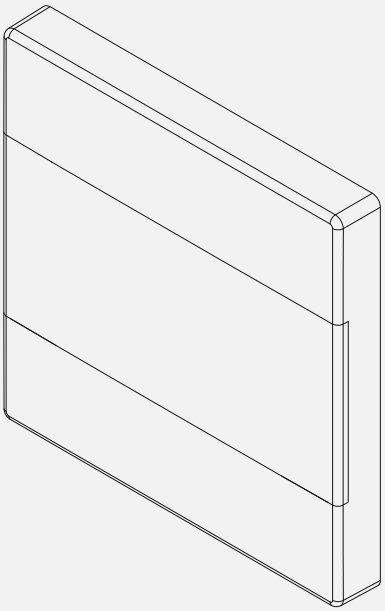
	
1095 UTA-BT 1096 UTA-BT 1099 UHKTA-BT 1094 USITA-BT	1794 MDRT-xxx

Table. 1: Control elements

5.3 Functions

The device serves for time-controlled temperature regulation via switch contact. The timing of the temperature regulation can be set for each day. The temperature values can be set for individual days or in a block. The device can be used with electric as well as water-based heating systems.

Functionality of heating mode: 1095 UTA-BT

- Room temperature controller with radiator:
  - Mainly for triggering actuating drives (e.g. TSA/K230.2).
  - Actuating of electric radiators.
- Room temperature control with floor heating (water):
  - Mainly for triggering actuating drives (e.g. TSA/K230.2).
- Room temperature control with floor temperature limiter (electric)::
  - Activation of room temperature via electric floor heating.
  - Use only possible in combination with an external temperature sensor (e.g. 6226/T)
- Floor control (electric):
  - Activation via electric floor temperature.
  - Use only possible in combination with an external temperature sensor (e.g. 6226/T)

Functionality of heating mode: 1096 UTA-BT

- Room temperature controller with radiator:
  - Activation of actuating drives with 24V (e.g. TSA/K24.2)
- Room temperature control with floor heating (water):
  - Activation of actuating drives with 24V (e.g. TSA/K24.2)

Functionality of heating mode: 1094 USITA-BT

- Room temperature controller with radiator:
  - Activation of actuating drives (e.g. TSA/K230.2).
- Room temperature control with floor heating (water):
  - Activation of actuating drives (e.g. TSA/K230.2).

Functionality of heating and cooling mode: 1099 UHKTA-BT

- Room temperature control with floor heating (water):
  - Activation of actuating drives (e.g. TSA/K230.2)
  - Use of control for cooling (a cool medium mus flow through the heating pipe).
  - Suitable for use of 2 and 4 pipe systems.

5.4 Button functions

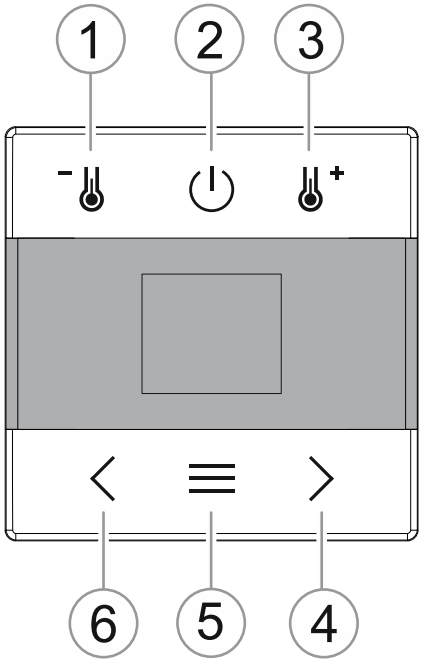


Fig. 2: Button functions

Pos.	Designation	Function
[1] / [3]	Reduce temperature setpoint Increase temperature setpoint	The setpoint can be set temporarily with the buttons. If one of the two buttons is actuated, the setpoint is changed in the display. Each press of the button causes a change of the setpoint in steps of 0.5°C. The temporarily adjusted setpoint remains valid until a change is made to one of the two operating modes, ECO mode and comfort mode, by means of a preset switching time, the remote function of the app, or via the buttons **<** / **>**. At a temporary setpoint neither the icon for ECO nor comfort is displayed. In the control mode. However, if a setpoint is set according to the configured ECO or comfort mode, the respective icon is displayed again.
[2]	ON / OFF	With this button the room temperature controller is switched off. After the button is pressed, OFF is shown in the display. After 3 seconds, the display changes to the current time. With a renewed press of the button the room temperature controller changes back to the control mode.
[4]	ECO mode setting	The ECO mode is set with the **<** arrow button. If the room temperature controller has a temporary setpoint, one of the operating modes can again be set via the arrow buttons.
[5]	Change between the control mode and display of the actual temperature value	This button can be used to change between the control mode (display of the setpoint) and the display of the actual temperature value. After 10 seconds, the display will switch back automatically from the display of the actual temperature value to the control mode.

Pos.	Designation	Function
[6]	Setting of Comfort mode	The comfort mode is set with the **>** arrow button. If the room temperature controller has a temporary setpoint, one of the operating modes can again be set via the arrow buttons.

Table:2 Button functions

5.5 Display overview

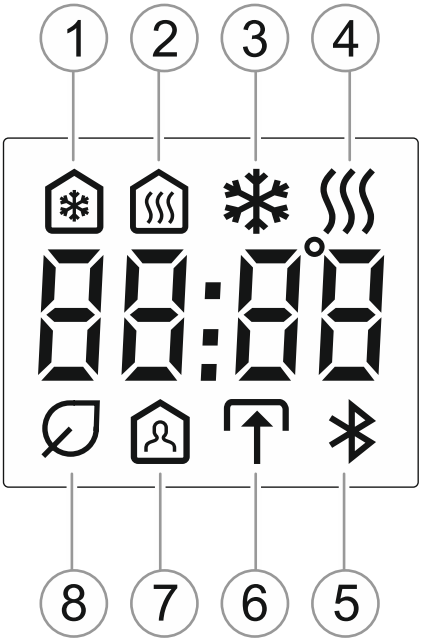


Fig. 3: Display overview

Pos.	Designation	Function
[1]	Cooling mode	The device is in cooling mode.
[2]	Heating mode	The device is in heating mode.
[3]	Cooling mode	Device is currently cooling.
[4]	Heating mode	Device is currently heating.
[5]	Bluetooth	▪ Flashes: Pairing ▪ Continuous on: Device is connected
[6]	External input active	The external input is active.
[7]	Comfort mode	The device is in the comfort mode.
[8]	Eco mode	The device is in Eco mode.

Table:3 Display overview

6 Technical data

6.1 Technical data

General technical data

Designation	Value
Degree of protection:	IP20 (EN 60529)
Operating temperature:	-5 to +45°C
Storage temperature:	-20 to +70°C
Connection terminals:	▪ 1x 1.5 mm² to 2.5 mm² ▪ 2x 1.5 mm² to 2.5 mm²
Switching temperature difference at 2-point operation:	±0.5 K
Temperature adjustment range:	5 to 30°C
Power loss:	< 0.5 W
Bluetooth: ▪ Transmission protocol: ▪ Transmission frequency: ▪ Maximum transmission power:	 Bluetooth low energy 2402 - 2480 MHz < 4dBm

Technical Data **1095 UTA-BT**

Designation	Value
Nominal voltage:	230 V AC ± 10%, 50 Hz
Switching capacity:	10 (4) A
Protection class:	II

Table. 4: Technical data 1095 UTA-BT

Technical data 1096 UTA-BT

Designation	Value
Nominal voltage:	24 V AC ± 10%, 50 Hz
Switching capacity:	1 A
Protection class:	III

Table. 5: Technical data 1096 UTA-BT

Technical data 1099 UHKTA-BT

Designation	Value
Nominal voltage:	230 V AC ± 10%, 50 Hz
Switching capacity:	2 x 8 (1) A
Protection class:	II

Table. 6: Technical data 1099 UHKTA-BT

Technical data 1094 USITA-BT

Designation	Value
Nominal voltage:	230 V AC ± 10%, 50 Hz
Switching capacity:	1x - 10x TSA/K230.2
Protection class:	II

Table. 7: Technical data Electronic room temperature controller insert

6.2 Dimensional drawings

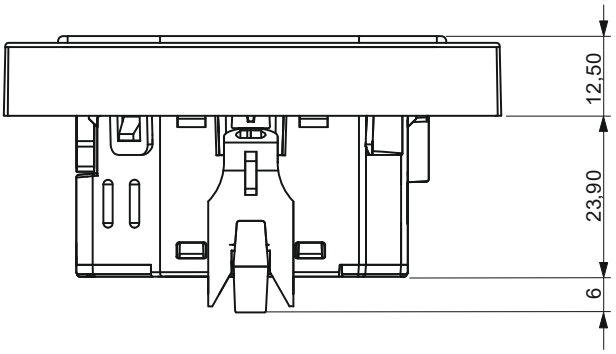


Fig. 4: Dimensions

Notice
All specifications are in mm.

7 Connection, installation / mounting

Danger - Electric voltage!

Risk of death due to electrical voltage of 100 … 240 V during short-circuit in the low-voltage conduit.

– Low-voltage and 100 … 240 V conduits must not be installed together in a flush-mounted box!

7.1 Requirements for the electrician

Danger - Electric voltage!

Install the device only if you have the necessary electrical engineering knowledge and experience.

- Incorrect installation endangers your life and that of the user of the electrical system.
- Incorrect installation can cause serious damage to property, e.g. due to fire.

The minimum necessary expert knowledge and requirements for the installation are as follows:

- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
  1. Disconnect
  2. Secure against being re-connected
  3. Ensure there is no voltage
  4. Connect to earth and short-circuit
  5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the type of supply network (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective earthing, necessary additional measures, etc.).

7.2 Electrical connection

Electrical connection 1095 UTA-BT

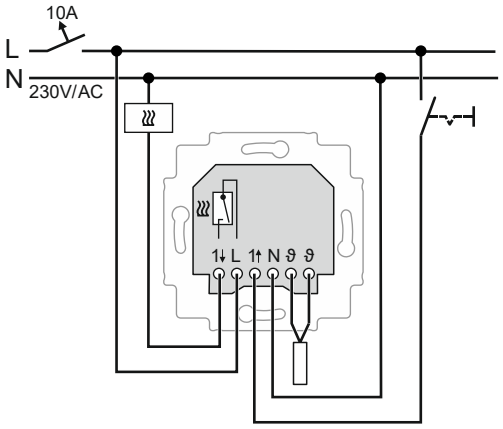


Fig. 5: Electrical connection 1095 UTA-BT

Electrical connection 1096 UTA-BT

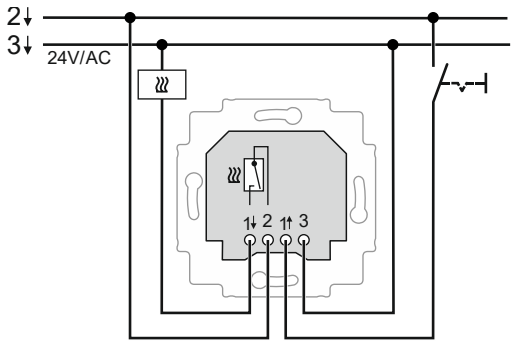


Fig. 6: Electrical connection 1096 UTA-BT

Electrical connection 1094 USITA-BT

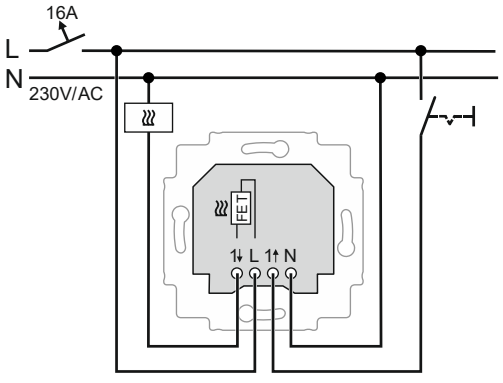


Fig. 7: Electrical connection 1094 USITA-BT

Electrical connection 1099 UHKTA-BT

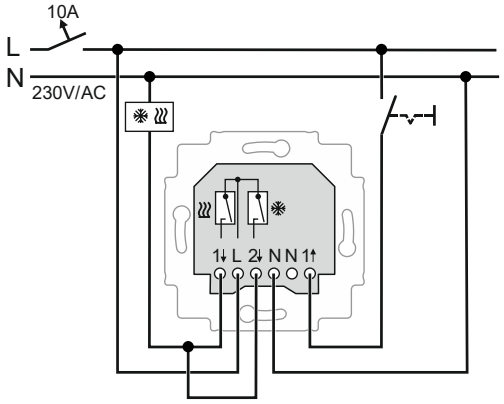


Fig. 8: Electrical connection 1099 UHKTA-BT 2-Rohr-System (Betriebsart 1)

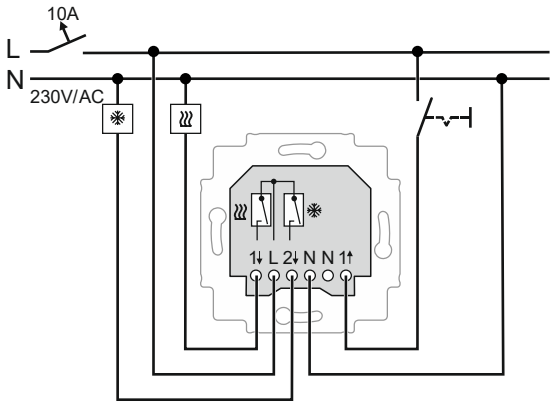


Fig. 9: Electrical connection 1099 UHKTA-BT 4-Rohr-System (Betriebsart 1)

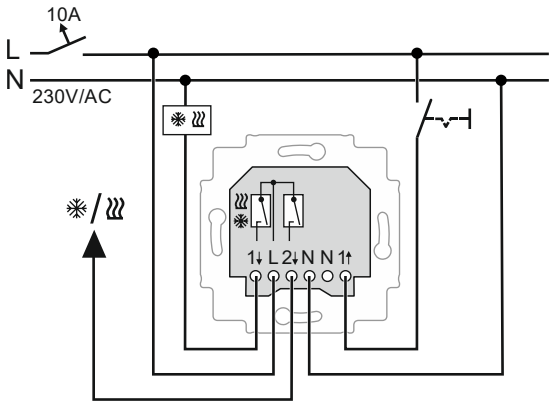


Fig. 10: Electrical connection 1099 UHKTA-BT 2-Rohr-System (Betriebsart 2)

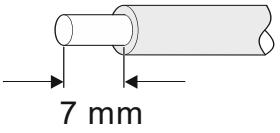


Fig. 11: Skinning length

Notice
The skinning length should be 7 mm.

7.3 Mounting

Danger - Electric voltage!

Risk of death and fire due to electric voltage of 100 to 240 V.

– Work on the 100 - 240 V supply system may only be performed by authorised and qualified electricians.
– Disconnect the mains voltage prior to mounting and dismantling.

Caution! The device can sustain damage when coming into contact with hard objects!

The plastic parts of the device are sensitive.

– Pull the attachment off only with your hands.
– Do not lever parts off with screwdrivers or similar hard objects.

In Germany the flush-mounted insert must only be installed in flush-mounted boxes according to DIN 49073-1, Part 1, or suitable surface-mounted housings.

Different installation standards apply in other countries. These are to be taken into account when used in connection with a different support ring and flush-mounted box.

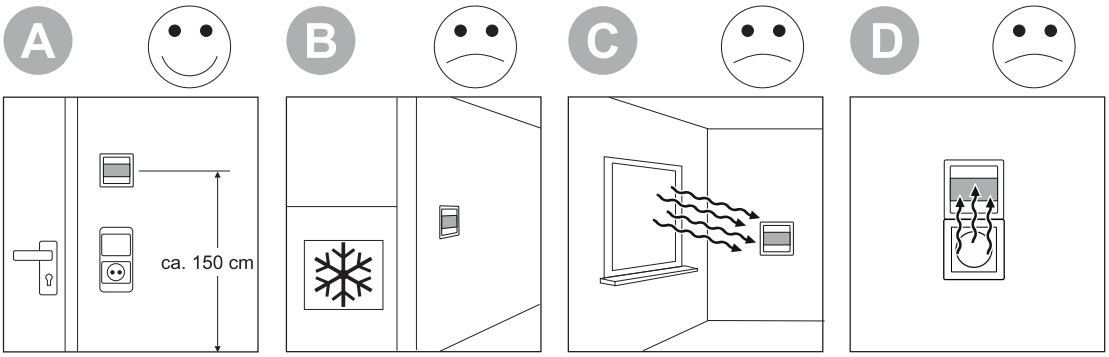


Fig. 12: Installation sites

[A] Recommended mounting height: 150 cm

[B] Avoid mounting on thermal bridges

[C] Avoid draught and direct sunlight

[D] Avoid the heat radiation of external devices

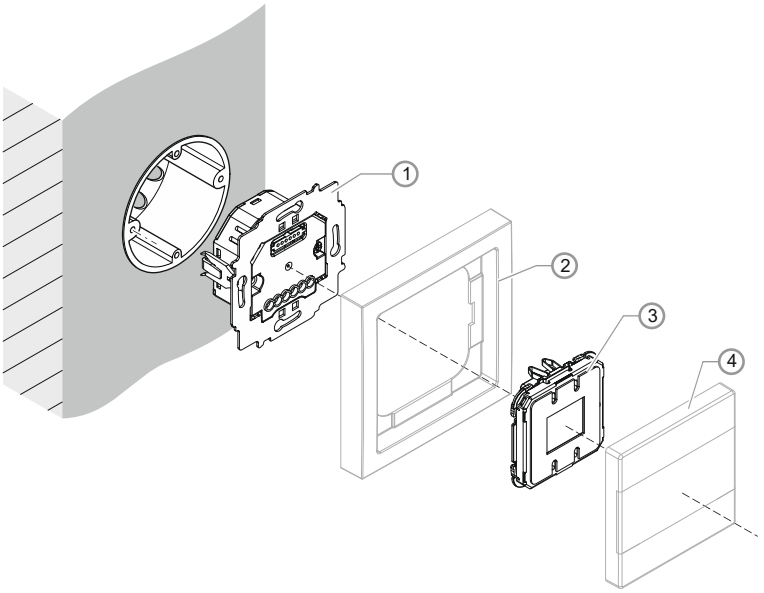


Fig. 13: Mounting

To mount the device, proceed as follows:

1. Connect the flush-mounted device insert [1].
   – For the connection assignment, see chapter see chapter 7.2 “Electrical connection“ on page 20.

[2. Fix the flush-mounted device insert [1] in the flush-mounted box.

3. Mount the control element [3] together with the cover frame [2] onto the flush-mounted insert.
   – Ensure that the connector is not jammed on the rear side.
4. Attach the design cover [4].
   – The device is now mounted.

7.3.1 Radio transmission ranges

The transmission range can vary depending on the application.

Walls, ceilings and other building obstacles reduce the transmission range of the Bluetooth signal.

Fire walls, lift wells, staircases and supply areas are considered as separating walls, just like the installation of the receiver in metal housings.

Notice

The room temperature controller is configured with the app . No network functions are used.

The configuration of the room temperature controller should ideally be made in close proximity and with visual contact to the device.

Large radio transmission ranges only serve to ensure an excellent connection.

7.4 Dismantling

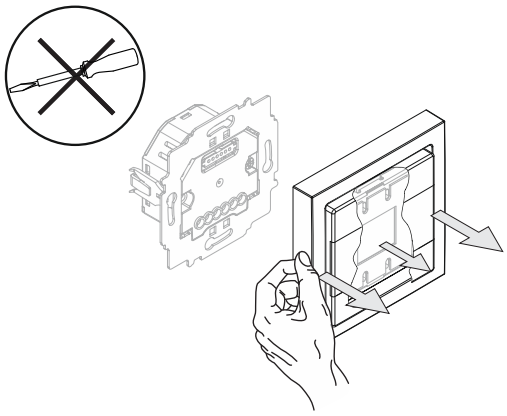


Fig. 14: Dismantling

1. Pull off the control element including the cover frame only with your hands.

Caution! The device can sustain damage when coming into contact with hard objects!

The plastic parts of the device are sensitive.

– Pull the attachment off only with your hands.
– Do not lever parts off with screwdrivers or similar hard objects.

8 Commissioning

8.1 Initial commissioning

Notice

– The device can be operated immediately after the installation with the preset parameters (factory settings).
– Further settings are possible via the app.

A mobile terminal device is required for commissioning. In the following the designation "Smartphone" is used representatively.

- The current version of the app Busch-free@home® Next App is installed on your smartphone, at least however, version 2.3.3.
  – The Busch-free@home® Next App can be downloaded free of charge from the Apple App Store and from Google Play.
- The smartphone has a Bluetooth function.
- The room temperature controller is located in the radio range of the smartphone.
- The room temperature controller is supplied with voltage.

8.1.1 Connecting a non-programmed device with the app

A login of a non-programmed device into the Busch-free@home® Next App app is possible at all times via Bluetooth. For this, scan the printed QR code on the top side of the device or activate the pairing mode (see chapter 8.1.3 “Activation of pairing mode“ on page 29).

As soon as the device has established an active connection to the app, this is indicated by a static Bluetooth icon. A programmed device that does not have an active connection to the app, does not show a Bluetooth icon.

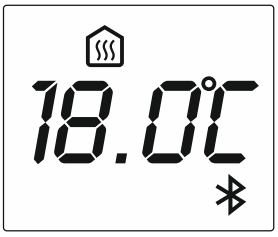


Fig. 15: Active Bluetooth connection to the app

To connect a non-programmed device with the app, proceed as follows.

1. Open the app Busch-free@home® Next App.
2. Create an installation (see chapter 8.1.4 “Add a new installation“ on page 30), if not yet done.
3. Select an installation.
   – The app searches automatically for new Bluetooth devices. As alternative you can program the device manually via Bluetooth or by scanning the QR code.
4. Tap on the plus icon [1].
5. Add a device via the option “Continue” or “Scan code” [2].
   – The adding via “Continue” is described in the following.
6. Add a device by activating the pairing mode with a press of a button on the device for 6-10 seconds [3].
   – After the successful connection, the device is listed in the app [4].

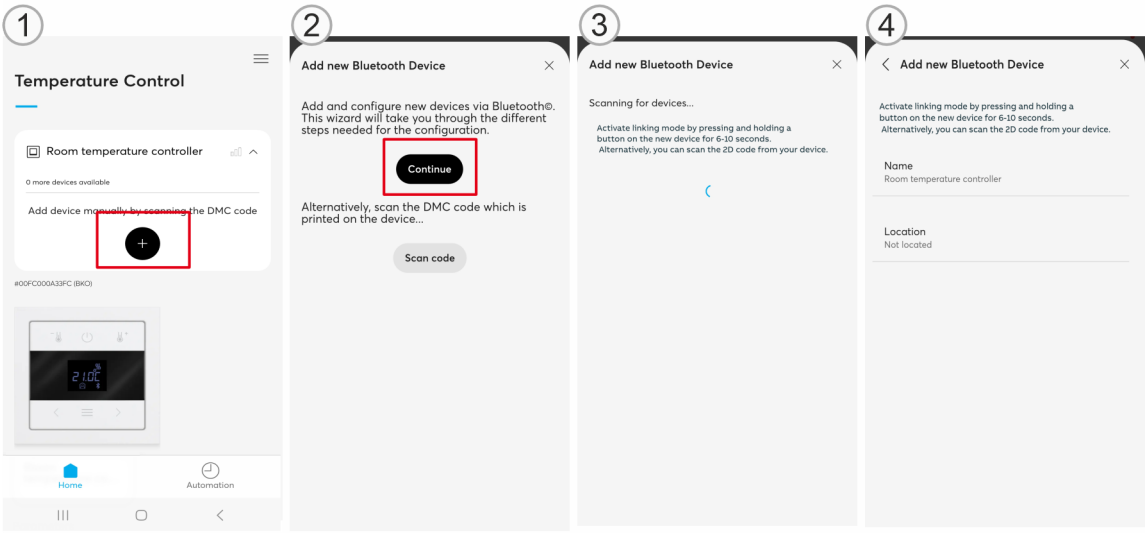


Fig. 16: Add device [1] - [4]

7. Assign a device name and position the device inside the installation (e.g. Here in the kitchen).
   – The device is added to the installation.
8. Assign a room name and, if required, fix a background image. Then tap on "Next" [5]
9. Tap on "Finished" [7].
   – If required, repeat steps [1] - [6] via the “Add additional device” button.
   – The device is now displayed within the installation [8].

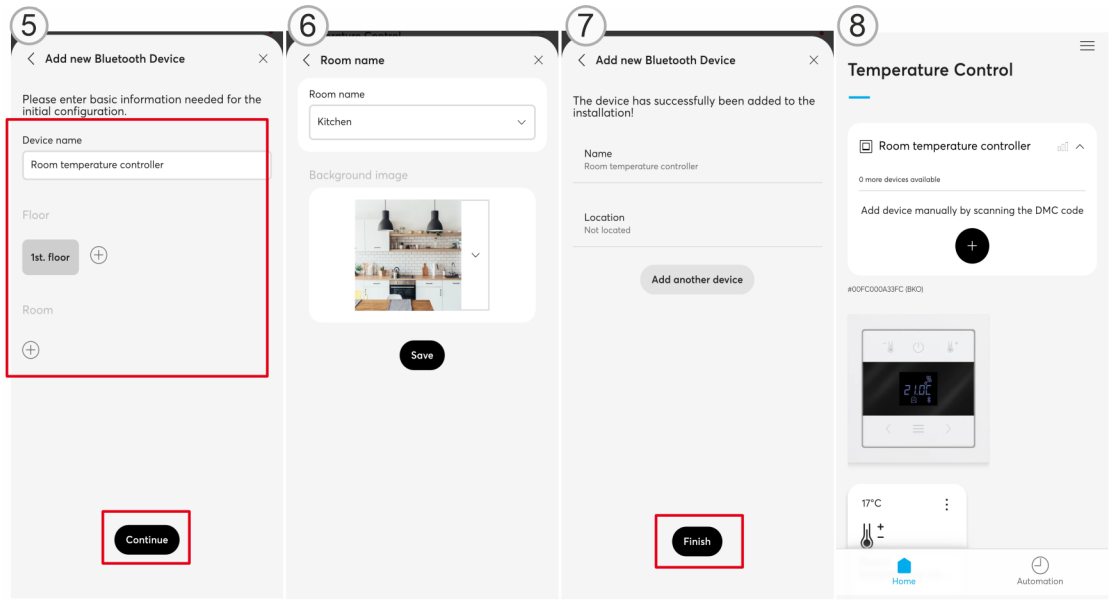


Fig. 17: Add device [5] - [8]

8.1.2 Set an already programmed device into the teaching mode

A device that has already been logged in must be reset to enable it to be set again into teaching mode:

1. Switch the room temperature controller off with the “ON/OFF” button.
2. Press the arrow button at the bottom left for 15 seconds.
   – A timer in the display counts down from 15 to 0.
   – “P1” appears in the display.
3. Press the arrow button again briefly at the bottom left.
   – “P2” appears in the display.
4. Press the arrow button again briefly at the bottom left.
   – The “Standard” display is shown.

Notice
Only one device can be operated via the app at the same time. Aside from the operation via the app, also a classic local operation is possible on the device.

8.1.3 Activation of pairing mode

The pairing mode is required to link a non-programmed device with the app via Bluetooth. To activate the pairing mode, proceed as follows:

1. Switch the room temperature controller off with the “ON/OFF” button.
2. Press the arrow button at the bottom right.
   – In this mode the device is visible for the app for 1 minute.
   – A non-programmed device indicates this with the flashing Buetooth icon in a 4 Hz or 2 Hz cycle.

As soon as the device has established an active connection to the app, this is indicated by a static Bluetooth icon. A programmed device without an active connection to the app, does not show a Bluetooth icon.

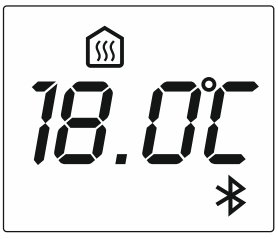


Fig. 18: Active Bluetooth connection to the app

Notice
Only one device can be operated via the app at the same time. Aside from the operation via the app, also a classic local operation is possible on the device.

8.1.4 Add a new installation

When you have installed the app anew, you must add a new network before its use. Proceed as described in the following.

1. Start the app.
2. Tap on the plus icon [1].
3. Select the option “Add a new flexTronix wireless device” [2].
4. Tap on "Next” [3].
5. Tap on “New installation” [4], to add a new installation.

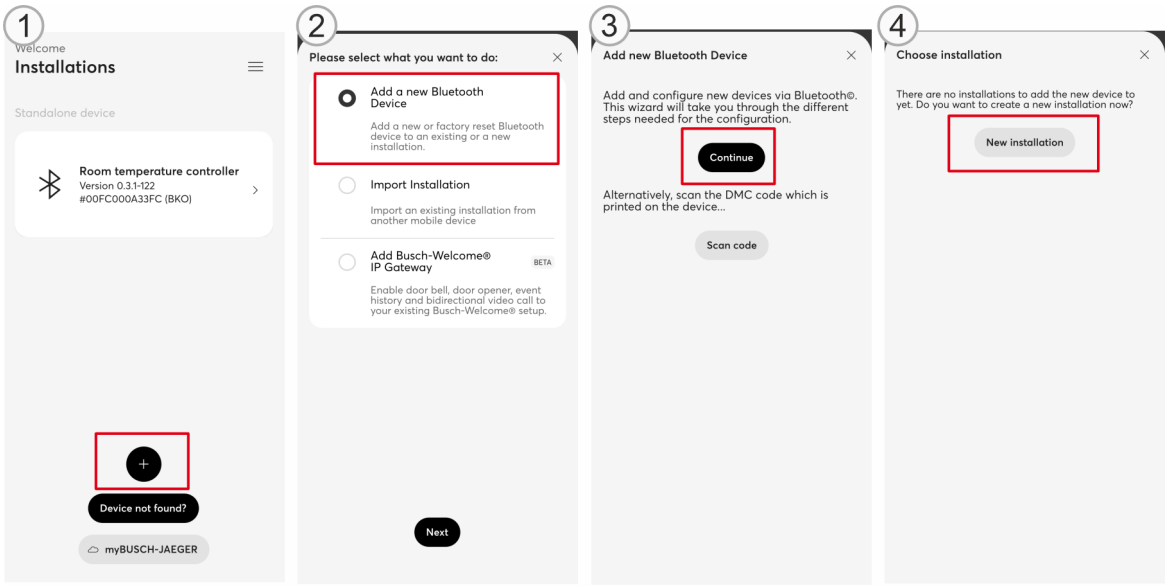


Fig. 19: Adding a new network [1] - [4]

6. Specify the type of installation. In the example the option “Device control” [5] was selected for the individual control of a device.
7. Assign a name and tap on "Continue” [6].
8. Assign a password and tap on “Continue” [7].
9. Add a device by activating the pairing mode with a press of a button on the device for 6-10 seconds [8].

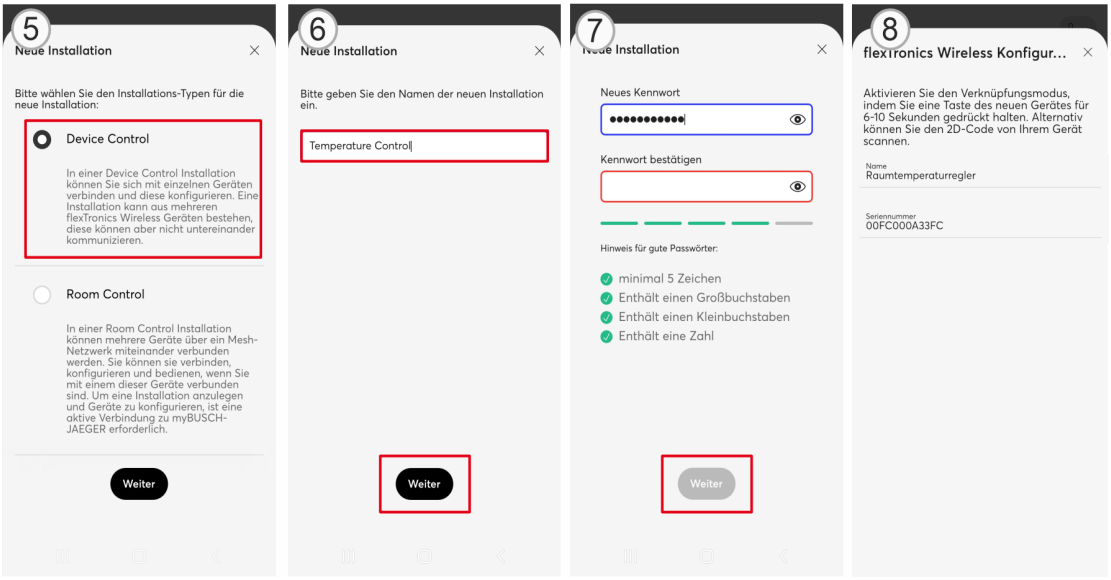


Fig. 20: Adding a new network [5] - [8]

10. Assign a device name and position the device inside the installation (e.g. here in the kitchen) and tap on "Continue” [9].
    - The device is added to the installation.
    - If required, repeat steps [1] - [9] via the “Add additional device” button.
11. Tap on "Finished” [10].
    - The device is now displayed within the installation [11].

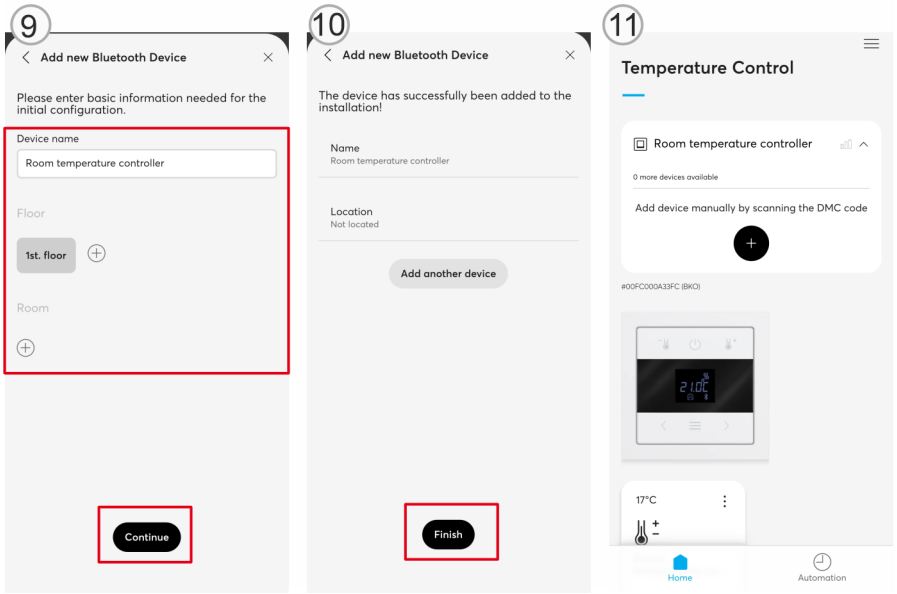


Fig. 21: Adding a new network [9] - [11]

8.2 Factory and parameter overview

The possible parameter and factory setting of the device are described in the following.

The factory settings provide an overview about the factory configuration of the device and the available setting ranges.

8.3 Factory/parameter settings 1095 UTA-BT

Main parameters	Parameter name	1095 UTA-BT	Factory setting
Function	Room temperature control with floor heating	x	A
	Room temperature control with radiator	x	Room temperature control with radiator
	Room temperature control with floor temperature limitation	x	A
	Floor control	x	A
Temperature adjustment	Comfort temperature [C°] (Value between 15°C and 30°C)	x	21
	Basic set value of heating Eco mode [°C] (Value between 10°C and 30°C)	x	19
	Basic set value of heating Eco mode [°C] (Value between 10°C and 30°C)	-	-
	Temperature correction [K] (Manual adjustment of the Measured temperature -10/ +10)	x	0
	Limit setpoint temperature (Yes / No)	x	No
	Maximum setpoint temperature [°C] (Value between 20°C and 30°C)	x	A
	Minimum setpoint temperature [°C] (Value between 10°C and 20°C)	x	A
Operating mode	Four-pipe operation	-	-
	Two-pipe operation	-	-
Local changeover on the device	Inactive	-	-
	Active	-	-
LED and display setting	LED switch-on brightness night [%] (Value between 0 and 100)	x	100
	LED switch-on brightness day [%] (Value between 0 and 100)	x	100
	Display of idle state (30 sec., 60 sec., 2 min., 5 min., never)	x	60 s

Main parameters	Parameter name	1095 UTA-BT	Factory setting
Actuator setting	Controller type (PWM controller, 2-point controller)	x	PWM controller
	PWM period [s] (Value between 600 and 1,800)	x	1,800
	Behaviour during malfunctions [%] (Value between 0 and 100)	x	30
	Contact type (Closed/opened de-energized)	x	Closed de-energized
External input function	Comfort	x	-
	Eco	x	Eco
	OFF	x	A
	Heating/Cooling changeover		-

Table. 8: Main parameters

General setting	Parameter name	1095 UTA-BT	Factory setting
Setting / maintenance	Device name (Free text)	x	A
	Position (e.g. Floor name)	x	A

Table. 9: Parameters - General setting

Other	Parameter name	1095 UTA-BT	Factory setting
Setting / Maintenance	Information about the device (serial number / article number / software version)	x	A
	Maintenance (set device password, reboot, read device in anew)	x	A
Setting of devices	Heating / cooling changeover (Local on the device: Heating / cooling/ auto)	-	-
	Block local operation active/inactive	x	Inactive

Table. 10 Parameters - others

Notice

If the room temperature controller is operated with an external remote sensor and is connected to an electric floor heating, the temperature limit must be set according to the data sheet of the floor heating manufacturer.

When using a remote sensor in the floor area, a protective tube as well as a remote sensor sleeve is recommended for the installation.

8.4 Factory/parameter settings 1096 UTA-BT

Main parameters	Parameter name	1096 UTA-BT	Factory setting
Function	Room temperature control with floor heating	x	-
	Room temperature control with radiator	x	Room temperature control with radiator
	Room temperature control with floor temperature limitation	-	-
	Floor control	x	-
Temperature adjustment	Comfort temperature [C°] (Value between 15°C and 30°C)	x	21
	Basic set value of heating Eco mode [°C] (Value between 10°C and 30°C)	x	19
	Basic set value of heating Eco mode [°C] (Value between 10°C and 30°C)	-	-
	Temperature correction [K] (Manual adjustment of the Measured temperature -10/ +10)	x	0
	Limit setpoint temperature (Yes / No)	x	No
	Maximum setpoint temperature [°C] (Value between 20°C and 30°C)	x	A
	Minimum setpoint temperature [°C] (Value between 10°C and 20°C)	x	A
Operating mode	Four-pipe operation	-	-
	Two-pipe operation	-	-
Local changeover on the device	Inactive	-	-
	Active	-	-
LED and display setting	LED switch-on brightness night [%] (Value between 0 and 100)	x	100
	LED switch-on brightness day [%] (Value between 0 and 100)	x	100
	Display of idle state (30 sec., 60 sec., 2 min., 5 min., never)	x	60 s
Actuator setting	Controller type (PWM controller, 2-point controller)	x	PWM controller
	PWM period [s] (Value between 600 and 1,800)	x	1,800
	Behaviour during malfunctions [%] (Value between 0 and 100)	x	30
	Contact type (Closed/opened de-energized)	x	Closed de-energized

Main parameters	Parameter name	1096 UTA-BT	Factory setting
External input function	Comfort	x	-
	Eco	x	W
	OFF	x	A
	Heating/Cooling changeover	-	-

Table. 11: Main parameters

General setting	Parameter name	1096 UTA-BT	Factory setting
Setting / maintenance	Device name (Free text)	x	A
	Position (e.g. Floor name)	x	A

Table. 12: Parameters - General setting

Other	Parameter name	1096 UTA-BT	Factory setting
Setting / Maintenance	Information about the device (serial number / article number / software version)	x	A
	Maintenance (set device password, reboot, read device in anew)	x	A
Setting of devices	Heating / cooling changeover (Local on the device: Heating / cooling/ auto)	-	-
	Block local operation active/inactive	x	Inactive

Table. 13: Parameters - others

8.5 Factory/parameter settings 1094 USITA-BT

Main parameters	Parameter name	1094 USITA-BT	Factory setting
Function	Room temperature control with floor heating	x	A
	Room temperature control with radiator	x	Room temperature control with radiator
	Room temperature control with floor temperature limitation	-	-
	Floor control	-	-
Temperature adjustment	Comfort temperature [C°] (Value between 15°C and 30°C)	x	21
	Basic set value of heating Eco mode [°C] (Value between 10°C and 30°C)	x	19
	Basic set value of heating Eco mode [°C] (Value between 10°C and 30°C)	-	-
	Temperature correction [K] (Manual adjustment of the Measured temperature -10/ +10)	x	0
	Limit setpoint temperature (Yes / No)	x	No
	Maximum setpoint temperature [°C] (Value between 20°C and 30°C)	x	A
	Minimum setpoint temperature [°C] (Value between 10°C and 20°C)	x	A
Operating mode	Four-pipe operation	-	-
	Two-pipe operation	-	-
Local changeover on the device	Inactive	-	-
	Active	-	-
LED and display setting	LED switch-on brightness night [%] (Value between 0 and 100)	x	100
	LED switch-on brightness day [%] (Value between 0 and 100)	x	100
	Display of idle state (30 sec., 60 sec., 2 min., 5 min., never)	x	60 s
Actuator setting	Controller type (PWM controller, 2-point controller)	x	PWM controller
	PWM period [s] (Value between 600 and 1,800)	x	1,800
	Behaviour during malfunctions [%] (Value between 0 and 100)	x	30
	Contact type (Closed/opened de-energized)	x	Closed de-energized
External input function	Comfort	x	A
	Eco	x	Eco
	OFF	x	A
	Heating/Cooling changeover	-	-

Table. 14: Main parameters

General setting	Parameter name	1094 USITA-BT	Factory setting
Setting / maintenance	Device name (Free text)	x	A
	Position (e.g. Floor name)	x	A

Table. 15: Parameters - General setting

Other	Parameter name	1094 USITA-BT	Factory setting
Setting / Maintenance	Information about the device (serial number / article number / software version)	x	A
	Maintenance (set device password, reboot, read device in anew)	x	A
Setting of devices	Heating / cooling changeover (Local on the device: Heating / cooling/ auto)	-	-
	Block local operation active/inactive	x	Inactive

Table. 16: Parameters - others

8.6 Factory/parameter settings 1099 UHKTA-BT

Main parameters	Parameter name	1099 UHKTA-BT	Factory setting
Function	Room temperature control with floor heating	x	Room temperature control with floor heating
	Room temperature control with radiator	-	-
	Room temperature control with floor temperature limitation	-	-
	Floor control	-	-
Temperature adjustment	Comfort temperature [C°] (Value between 15°C and 30°C)	x	21
	Basic set value of heating Eco mode [°C] (Value between 10°C and 30°C)	x	19
	Basic set value of heating Eco mode [°C] (Value between 10°C and 30°C)	x	25
	Temperature correction [K] (Manual adjustment of the Measured temperature -10/ +10)	x	0
	Limit setpoint temperature (Yes / No)	x	No
	Maximum setpoint temperature [°C] (Value between 20°C and 30°C)	x	A
	Minimum setpoint temperature [°C] (Value between 10°C and 20°C)	x	A
Operating mode	Four-pipe operation	x	Four-pipe operation
	Two-pipe operation	x	A
Local changeover on the device	Inactive	x	Inactive
	Active	x	A
LED and display setting	LED switch-on brightness night [%] (Value between 0 and 100)	x	100
	LED switch-on brightness day [%] (Value between 0 and 100)	x	100
	Display of idle state (30 sec., 60 sec., 2 min., 5 min., never)	x	60 s
Actuator setting	Controller type (PWM controller, 2-point controller)	x	PWM controller
	PWM period [s] (Value between 600 and 1,800)	x	1,800
	Behaviour during malfunctions [%] (Value between 0 and 100)	x	30
	Contact type (Closed/opened de-energized)	x	Closed de-energized
External input function	Comfort	x	A
	Eco	x	W
	OFF	x	A
	Heating/Cooling changeover	x	A

Table. 17: Main parameters

General setting	Parameter name	1099 UHKTA-BT	Factory setting
Setting / maintenance	Device name (Free text)	x	A
	Position (e.g. Floor name)	x	A

Table. 18: Parameters - General setting

Other	Parameter name	1099 UHKTA-BT	Factory setting
Setting / Maintenance	Information about the device (serial number / article number / software version)	x	A
	Maintenance (set device password, reboot, read device in anew)	x	A
Setting of devices	Heating / cooling changeover (Local on the device: Heating / cooling/ auto)	-	Heating
	Block local operation active/inactive	x	Inactive

Table. 19: Parameters - others

8.7 App settings

8.7.1 Carrying out device settings

This app function is used to select the control function of the room temperature controller. The different control functions are used to decide which measured value is used for the control and the parameters for the PI controller are defined.

Depending on the version used, the following control functions are available.

Room temperature controller version	Control functions
1095 UTA-BT	1. Room temperature control with radiator 2. Room temperature control with floor heating (water) 3. Room temperature control with floor temperature limitation (electric) 4. Floor control (electric)
1096 UTA-BT 1094 USITA-BT	1. Room temperature control with radiator (water) 2. Room temperature control with floor heating (water)
1099 UHKTA-BT	No selection menu is available for this room temperature controller. Here the room temperature control with floor heating is always active. 1. Room temperature control with floor heating

Table. 20: Control functions

The device settings of the room temperature controller you adjust as described in the following.

1. Select the room temperature controller to be edited in you installation.
2. Change to the start page via the house icon [1].
3. Scroll down to the device settings (parameters, actuator and display settings).
4. Fold out the desired menu item with the arrow buttons [2] - [3].

5. Make the desired changes to the settings (additional information is available in Chapter 8.7.2 “Setting options“ on page 42).

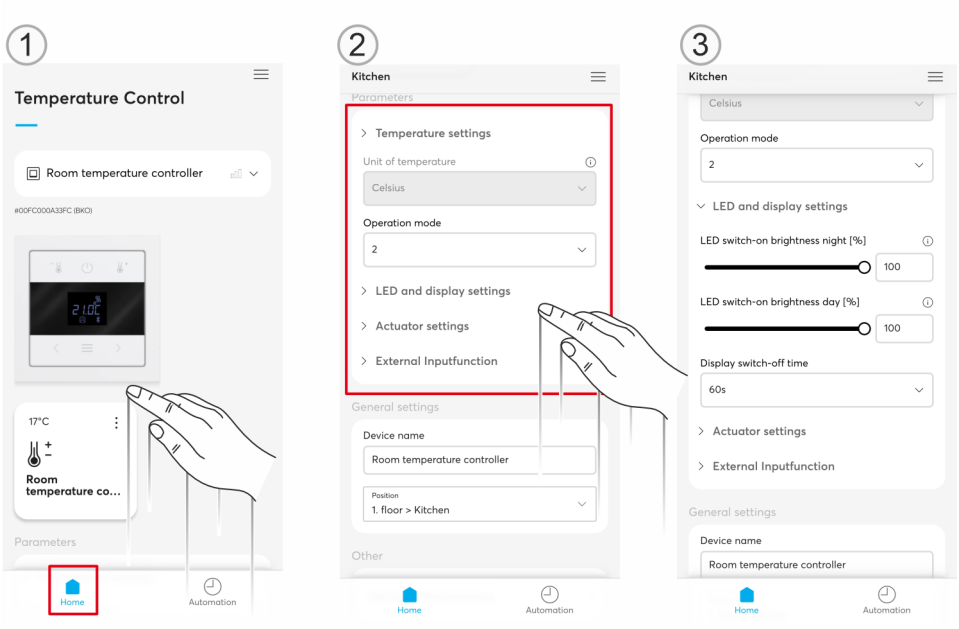


Fig. 22: Carrying out device settings

8.7.2 Setting options

Within the setting options the general device parameters and general settings can be made. The available settings are described in the following.

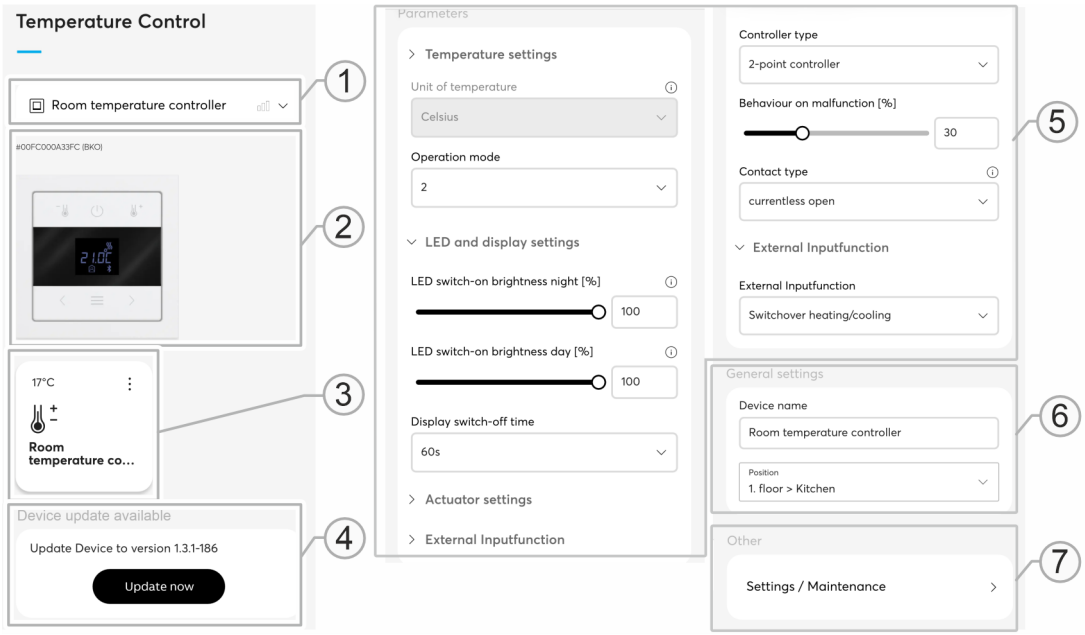


Fig. 23: Channel settings

Pos.	Description	
[1]	**Name of the room temperature controller** Here the name of the room temperature controller and the quality of the Bluetooth signal are listed.	
[2]	**Illustration** Here the device is illustrated.	
[3]	**Operation** This button can be used to operate the room temperature controller.	
[4]	**Device updates are available** This button is used to update the device.	
[5]	**Parameters - Temperature settings**	
	Operating mode	Here the operating mode is specified. The following operating modes can be selected: ▪ Four-pipe system ▪ Two-pipe system
	External input function	Here the function of the external input is defined. The following functions can be selected: ▪ Comfort ▪ Eco ▪ Off ▪ Heating/Cooling changeover A detailed description of the external input function is available in Chapter 8.7.13 “Setting the external input“ on page 51.

Pos.	Description	
	Unit of temperature	Here the temperature unit is specified, the following temperature units are available for selection: ▪ Celsius ▪ Fahrenheit
	Parameters - LED and display settings	
	Setpoint temperature [°C]	The -/+ buttons are used to specify the setpoint temperature.
	Basic set value of heating Eco mode [°C]	Specifies the basic setpoint for heating during Eco mode.
	Basic set value of cooling Eco mode [°C]	Specifies the basic setpoint for cooling during Eco mode.
	Temperature correction [°C]	Manual increase/reduction of the temperature value via the -/+ buttons to adjust a permanent temperature offset.
	Maximum setpoint temperature [°C]	The -/+ buttons are used to specify the maximum setpoint temperature to be reached.
	Minimum setpoint temperature [°C]	The -/+ buttons are used to specify the setpoint temperature that is not to be dropped below.
	LED switch-on brightness night [%]	The brightness of the LED on the display for night mode is set via this parameter.
	LED switch-on brightness day [%]	The brightness of the LED on the display for daytime operation is set via this parameter.
	Display of idle state	Specifying the time the display changes into the idle state (30 s, 60 s, 2 min., 5 min.).
	Parameters - Actuator settings	
	Controller type	▪ Specifying the controller type in dependence of the stored room temperature controller. ▪ 2-point control ▪ PWM (pulse width modulation)
	PWM period [s]	Here the length of a PWM period of the room temperature controller can be selected. Notice: The setting is only available when the controller type has defined as PWM controller beforehand.
	Behaviour during faults [%]	Here the behaviour is specified the value at which the actuating drive is actuated in case of a fault.
	Contact type	Here it can be selected whether the device operates as opener or closer. The following values are available: ▪ Closed de-energized ▪ Opened de-energized
[6]	**General settings**	
	Device name An independent designation for the device can be allocated via the text field.	
	Position By tapping on the drop-down menu you can assign a position to the device in the building structure you defined (e.g. assignment to a room on a certain floor).	
[7]	**Settings/Maintenance**	

Table. 21: Channel settings

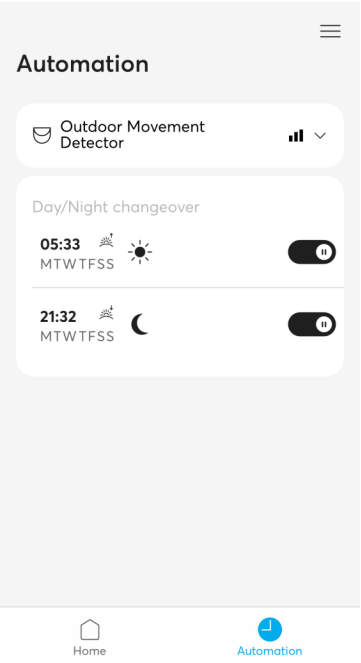
8.7.3 Specify the starting time

Notice
The device is not equipped with batteries.
– Time programs are stopped at a power failure.
– The time in the device is synchronized again only at the next connection with the app.

Up to 28 switching times can be programmed via the automation. Each starting time has a weekday function and can programmed for one or several weekdays.

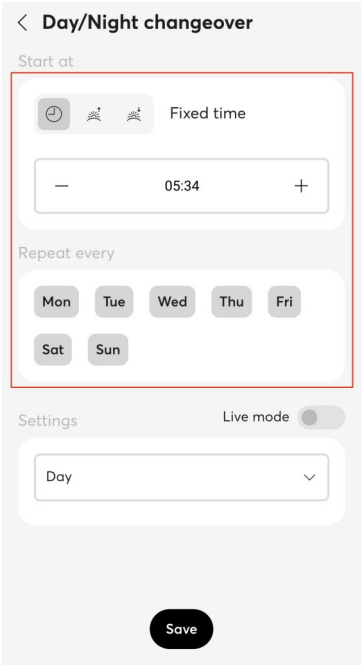
In the following you see the function and operating areas of the "Automation" app area.

Automation overview area



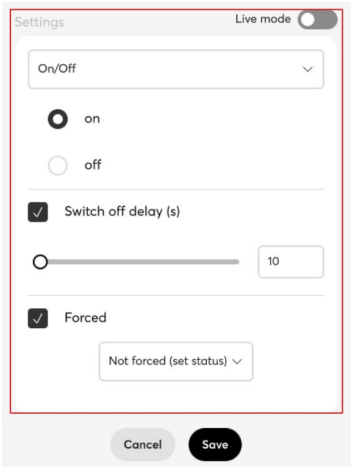
- Display of the number of configured timers
- Display of the defined switching times
- Activation / deactivation of timers

Automation Typification



- Specification of the type (specified time, day- and night-dependent)
- Specification of repetition for weekdays
- Activation of live mode

Automation Settings



- Specification of switch function
- Activation / deactivation of functions
- Display of the software version of the device

Notice: The available settings are dependent on the typification.

Notice
These settings are not shown in the display of the room temperature controller.

Up to 28 switching times can be programmed via the app function. Each starting time has a weekday function and can programmed for one or several weekdays.

The starting times are specified as follows:

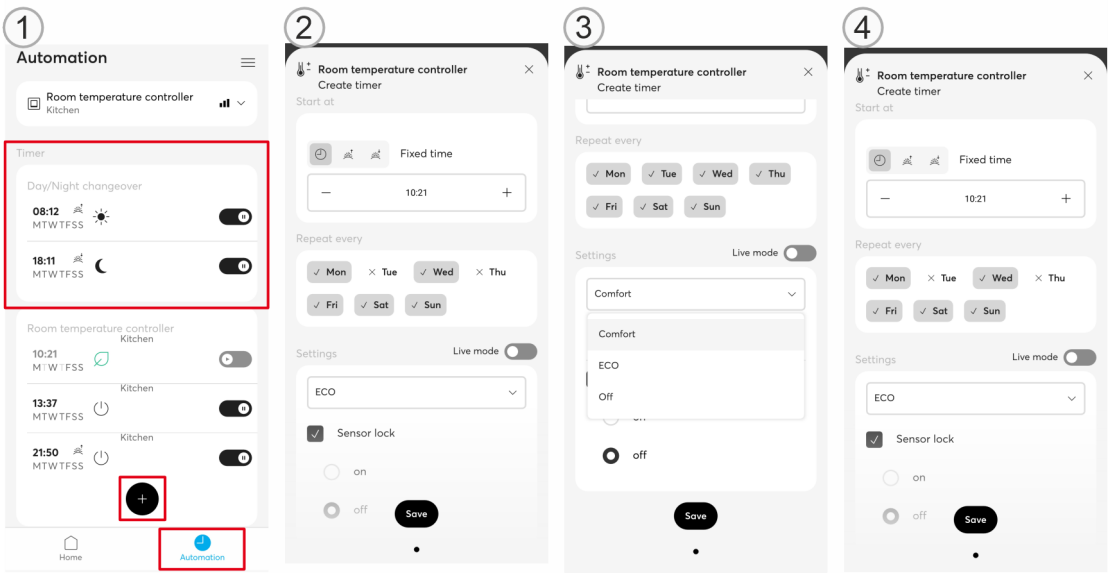


Fig. 24: Specifying the starting times

6. Tap on the timer icon [1].
   – You reach the “Automation” submenu.
7. Tap on the plus icon [2].
8. Define a starting time [3].
   – If necessary, enable the Astro function. With the Astro function switching times occur in dependence of sunrise and sundown. Also a timely offset can be defined (e.g. Starting time of the timer +/-30 minutes after sunrise).
   – If necessary, you can specify repetitions for certain weekdays. If the timer was defined for a Monday, you can specify a repetition for it on all weekdays, the weekend or for the entire week.
9. Specify on which function the starting time is to be applied.
10. Tap on "Save".
    – The defined starting time is listed within the timer [4].

8.7.4 Setting the LED switch-on brightness

Notice
These settings can only be made in the app.

The following four setting options are available in the app for the LED switch-on brightness:

1. Night mode daily from the set time for the LED switch-on brightness in night mode:
   – Astro function; 00:00 to 23:50 (adjustable in steps of 10 minutes)
   – Factory setting: Astro function at sunset
2. Daytime operation daily from the set time for the LED switch-on brightness in daytime operation:
   – Astro function; 00:00 to 23:50 (adjustable in steps of 10 minutes)
   – Factory setting: Astro function at sunrise
3. LED switch-on brightness in night mode (see chapter 8.7.2 “Setting options“ on page 42):
   – Setting of display lighting from 10% to 100% (adjustable in steps of 10%)
   – Factory setting: 100%
4. LED switch-on brightness in daytime operation (see chapter 8.7.1 “Carrying out device settings“ on page 40):
   – Setting of display lighting from 10% to 100% (adjustable in steps of 10%)
   – Factory setting: 100%

In addition, the LED switch-on brightness is influenced via the app under item “Display of idle state”.

8.7.5 Setting comfort temperature for heating mode

Notice
These settings can only be made in the app.

This function of the app can be used to change the comfort temperature in heating mode.

The setting of the max. and min. values is made via parameter “Maximum setpoint temperature [°C]” and “Minimum setpoint temperature [°C”] in the channel settings with a step size of 0.5°C (see chapter 8.7.2 “Setting options“ on page 42).

- Factory setting: 22.0 °C

8.7.6 Setting comfort temperature for cooling mode

Notice
The following settings apply only to the room temperature controller 1099 UHKEA.

Notice
These settings can only be made in the app.

This function of the app can be used to change the comfort temperature in cooling mode.

The setting of the max. and min. values is made via parameter “Maximum setpoint temperature [°C]” and “Minimum setpoint temperature [°C”] in the channel settings with a step size of 0.5°C (see chapter 8.7.2 “Setting options“ on page 42).

- Factory setting: 23.0 °C

8.7.7 Setting ECO temperature for heating mode

Notice
These settings can only be made in the app.

This function of the app can be used to change the Eco temperature in heating mode.

The setting of the basic setpoint value is made via parameter “Basic setpoint of heating Eco mode [°C] with a step size of 0.5°C (see chapter 8.7.2 “Setting options“ on page 42).

- Factory setting: 19.0 °C

8.7.8 Setting ECO temperature for cooling mode

Notice
The following settings apply only to the room temperature controller 1099 UHKEA.

Notice
These settings can only be made in the app.

This function of the app can be used to change the Eco temperature in cooling mode.

The setting of the basic setpoint value is made via parameter “Basic setpoint of cooling Eco mode [°C] with a step size of 0.5°C (see chapter 8.7.2 “Setting options“ on page 42).

- Factory setting: 25.0 °C

8.7.9 Setting actual temperature correction (room temperature)

Notice
These settings can only be made in the app.

Via function “Temperature correction [°C]” an offset of -10°C to +10°C for the measured room temperature can be entered (see chapter 8.7.2 “Setting options“ on page 42, position [6]).

- Step-width 0.5°C

The ambient and utilisation conditions lead to different own temperature developments of the control. This can lead to an incorrect display of the actual temperature. For the compensation via the app, an offset for the measured value of the sensor can be entered.

- Factory setting: 0 °C

8.7.10 Blocking cooling mode

Notice
The following settings apply only to the room temperature controller 1099 UHKEA.

Notice
These settings can only be made in the app.

The cooling mode is available only after activation.

- Factory setting: Cooling mode blocked

8.7.11 Heating/Cooling changeover

Notice
This changeover between heating and cooling mode can be set exclusively for 1099 UHKTA-BT.

The changeover between heating and cooling mode must be selected when the controller is to switch over between heating and cooling modes.

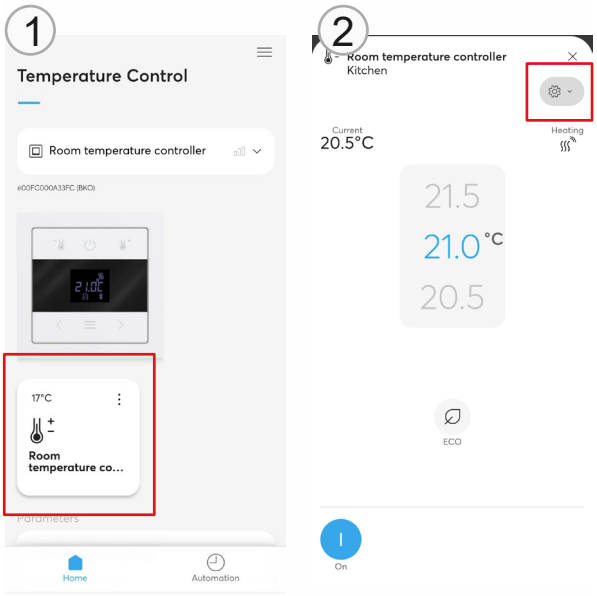


Fig. 25: Heating/Cooling changeover

The switching behaviour depends on the setpoint values of parameters “Maximum setpoint temperature [°C] and “Minimum setpoint temperature [°C]”.

- If the minimum setpoint temperature drops below its set value, the controller changes into heating mode.
- If the maximum setpoint temperature is exceeded, the controller changes into cooling mode.

8.7.12 Block local operation

Notice
These settings can only be made in the app.

The local operation of the device you can carry out or cancel as follows:

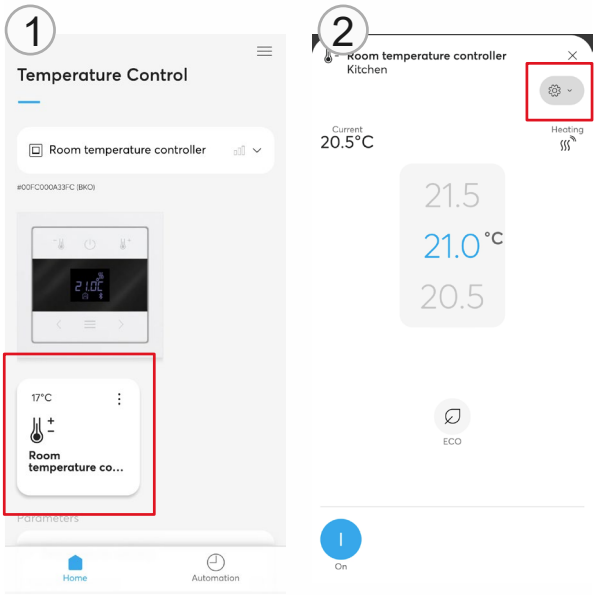


Fig. 26: Block local operation

1. Open the temperature settings with a tap on the three points in the top right corner of the control element [1].
2. Tap on the toothed wheel at the top right [2].
3. Block or unblock the local operation.

When the local operation of the device is blocked, the device display flashes when actuating the hardware-buttons.

8.7.13 Setting the external input

The function of the external input can be specified within the parameters of the channel settings.

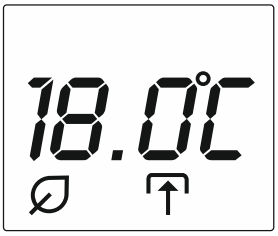


Fig. 27: External input active (see marked icon)

Notice
When the external input is active, the icon lights up permanently.

1095 UTA-BT, 1096 UTA-BT, 1094 USITA-BT and 1099 UHKTA-BT

The external input can be configured via the app. The following options are available:

- Comfort
- Eco
- OFF (frost protection)
- Heating/Cooling changeover (exclusively for 1099 UHKTA-BT)

If the external input is connected with the phase, the room temperature controller takes on the state of the programmed option (switch function). This has the highest priority and cannot be overridden. If the external input is not connected with the phase, the room temperature controller takes on the state according to the switching program (retrospect). If no switching program is active, the room temperature controller goes back to the state prior the connection of the external input.

8.7.14 Setting max. and min. setpoint values

The setpoints for the operating modes “Comfort” and “ECO” can be set in the app.

A setpoint shift can also be made directly and temporarily on the on the room temperature controller via the “+” / ”-” buttons. The following table contains the adjustable values in dependence of the application.

Area of application	
“Room temperature” application	▪ Max. value: 25°C to 50°C ▪ Min. value: 5°C to 25°C ▪ Factory setting: – Max. value: 30 °C – Min. value: 5 °C
“Floor temperature control” application	▪ Max. value: 25°C to 50°C ▪ Min. value: 5°C to 25°C ▪ Factory setting: – Max. value: 50 °C – Min. value: 5 °C

Table. 22: Setpoint values in dependence of application range

Setting in the app

1. Tap on the toothed wheel icon.
2. Tap on "Channel".
3. Specify the desired setpoint values below the parameters “Maximum setpoint temperature [°C]” and “Minimum setpoint temperature [°C]”.

8.7.15 Setting the display idle state

Notice
These settings can only be made in the app.

Here, in the app, the time at which the display is to be automatically switched off in dependence of the last local operation can be set.

1. Tap on the toothed wheel icon.
2. Tap on "Channel".
3. Specify the desired time period below parameter “Display of idle state”.

Setting options:

- 30 s / 60 s / 2 min. / 5 min. / never
  - If option “Never” is selected, the display is not switched off.
- Factory setting: 60 s

8.8 Extended app settings

8.8.1 Specifying the operating mode

Notice
These settings can only be made in the app.

Notice
Only for 1099 UHKTA-BT can the basic function be set.

The cooling and heating function can be specified via the operating mode. For this, an output for “Heating” and an output for “Cooling” is available. Also 4-pipe systems can be operated due to this function.

The function is adjusted as follows:

1. Tap on the toothed wheel icon.
2. Tap on "Channel".
3. Specify the desired operating mode below parameter “Operating mode”.

If the function is set on “Cooling”, output 2 (at function 1 “Heating”) switches on. This signal 230V~ can then be used as “Master signal” for the inputs of additional 1099 UHKTA-BT, so that they change into the cooling mode.

8.8.2 Specifying the controller type

This app function is used to specify the controller type of the room temperature controller. The following options are available:

- PWM
- 2-point controller

Specify the type of controller as follows:

1. Tap on the toothed wheel icon.
2. Tap on "Channel".
3. Specify the desired controller type below parameter “Controller type”.

Factory setting:

- 2-point controller

8.8.3 Activating frost protection

The "Frost protection" function is not available as option in the app.

If the controller is set on the “Off” function, frost protection is always active. From a temperature of below 5°C, the heating starts to heat again.

8.8.4 Activating valve protection

With this function of the app a valve protection is activated.

If valve protection is activated, the output per day is activated at least 1 x.

The relay output is switched on at least for 5 minutes at 10 o’clock every day. If the relay output has already been switched on for 5 minutes during the last 24 hours, the valve protection is not carried out.

8.8.5 Setting the contact type

The setting of the contact type is possible for the following functions:

- Room temperature control with radiator room temperature control with floor heating
- (Water) activation via the room temperature servo valve

The app can be used to specify whether de-energised closed or de-energised opened valves are used. The contact type can be set in the channel setting under the parameters. The options "De-energised closed" and "De-energised opened" are available.

- With the setting of the contact type the logic for switching the output is inverted:
  - Valve drive de-energised closed:
    Heating = Output on (output is activated)
  - Valve is de-energised opened:
    Heating = Output off (output is not activated)
  - Factory setting:
    Valve is de-energised closed

Specify the type of contact as follows:

1. Tap on the toothed wheel icon.
2. Tap on "Channel".
3. Specify the desired contact type below parameter “Contact type”.

8.8.6 Setting the switching capacity

Notice
These settings can only be made in the app.

Notice
This setting is only available for the 1095 UTA-BT room temperature controller.

In this app the switching capacity of the room temperature controller can be specified. This setting is required for the calculation of the self-heating process at different switching capacities. Th e setting makes possible the exact display of the actual temperature as well as a precise temperature control.

Specify the switching capacity as follows:

1. Tap on the toothed wheel icon.
2. Tap on "Channel".
3. Specify the desired switching capacity below parameter “Switching capacity”.

Adjusting ranges:

1095 UTA-BT: 0 W to 2300 W (in 100 W steps)

8.8.7 Setting the floor temperature sensor

This setting is available for the room temperature control with floor temperature limiter (electric) / floor control (electric). A range of floor sensors can be selected in the app.

This function is particularly helpful when a floor sensor has already been installed. The following floor sensors are available for selection.

1. Original NTC sensor (6226/T)
2. 2 kOhm PTC sensor
3. 2 kOhm NTC sensor
4. 10 kOhm NTC sensor
5. 12 kOhm NTC sensor
6. 15 kOhm NTC sensor
7. 33 kOhm NTC sensor
8. 47 kOhm NTC sensor

Factory setting:

- Original NTC sensor (6226/T)

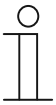
8.8.8 Setting the floor temperature limiter

This setting is only available for the room temperature control with floor temperature limiter (electric). Here the minimum and maximum temperature values for limiting the floor temperature can be entered or limited in the app.

Floor temperature control application

- Max. value: 25°C to 50°C
- Min. value: 5°C to 25°C
- Factory setting:
  - Max. value: 33°C
  - Min. value: 10°C

8.8.9 Specifying behaviour during malfunctions



Notice
The menu is not available for the operating mode of room temperature control with radiator / room temperature control with floor heating (water). The behaviour during malfunction is always set on 30%, since here a sensor error is very unlikely.

This setting is available for the room temperature control with floor temperature limiter (electric) and floor control (electric). This function of the app can be used to define the heating capacity in % with which the room temperature controller heats when a fault is pending.

Specify the behaviour during malfunction as follows:

1. Tap on the toothed wheel icon.
2. Tap on "Channel".
3. Specify the desired heating capacity below parameter “Behaviour during malfunction”.

Setting options

- Setting between 10% to 100% (adjustable in steps of 10%)
- Factory setting: 30%

9 Operation

The configuration and operation of the device is carried out via the Busch-free@home® Next App app. The device is registered on your mobile terminal device via the app. Operation is carried out via the app, or, as alternative, directly on the device. You can operate the device via individual control, but observe the following functions:

- The room temperature controller operates independent.
- If several room temperature controllers are used at the same time, there is no communication between the devices.
- Only one device can be operated via the app at the same time.
- For activation via the app, a connection with the device via Bluetooth is necessary.

Notice

The display overview and information on the button functions are available under:

– “Button functions“ on page 13
– “Display overview“ on page 15

9.1 Calibrating the temperature ACTUAL value display

To properly control loads larger than 2 A, the heating system must be connected for calibrating the display. After the connection, the heating system is switched on automatically for about 20 minutes. The CA icon is shown on the display at this time. After this, the display adjusts itself to the room temperature within a few minutes.

9.1.1 Calibrating the offset function

Reaching the selected room temperature depends on the ambient conditions such as heating system capacity (at least 5 K/h min.), room size, ambient temperature, insulation, etc.

That is why the values in the scale are merely guide values. To perform a setting that is as accurate as possible, the adjusting knob can be set in 4 stages by a total of ±6°C.

9.1.2 OFF

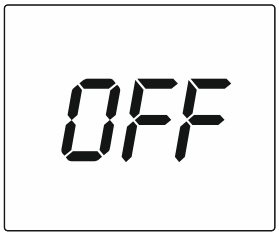


Fig. 28: Off

The temperature controller is switched off with active frost protection.

- Additional information about frost protection is available at Chapter 8.8.3 “Activating frost protection“ on page 54.

9.1.3 Local operation

The local operation of the room temperature controller can be carried out with or without enabling the cooling function. The following example shows the local operation at enabled cooling function.

[1] If the device is not connected, this is indicated on the display with the lettering “OFF”.

[2] In a deactivated state, the device shows the current time after 3 seconds.

[3] One can change between the setpoint temperature and the currently measured temperature (actual value) by pressing the menu button.

– After pressing the menu button, the actual temperature is displayed (2x flashing and 10 seconds permanently). The pre-set setpoint temperature is then shown again automatically on the display.

[4] The Eco mode is activated via the arrow buttons (left arrow button) or the comfort mode (right arrow button).

[5] The temperature setpoint can be increased or reduced via the “+” and “-” arrow buttons.

The precise sequence of the button commands is available in the following graphics overview.

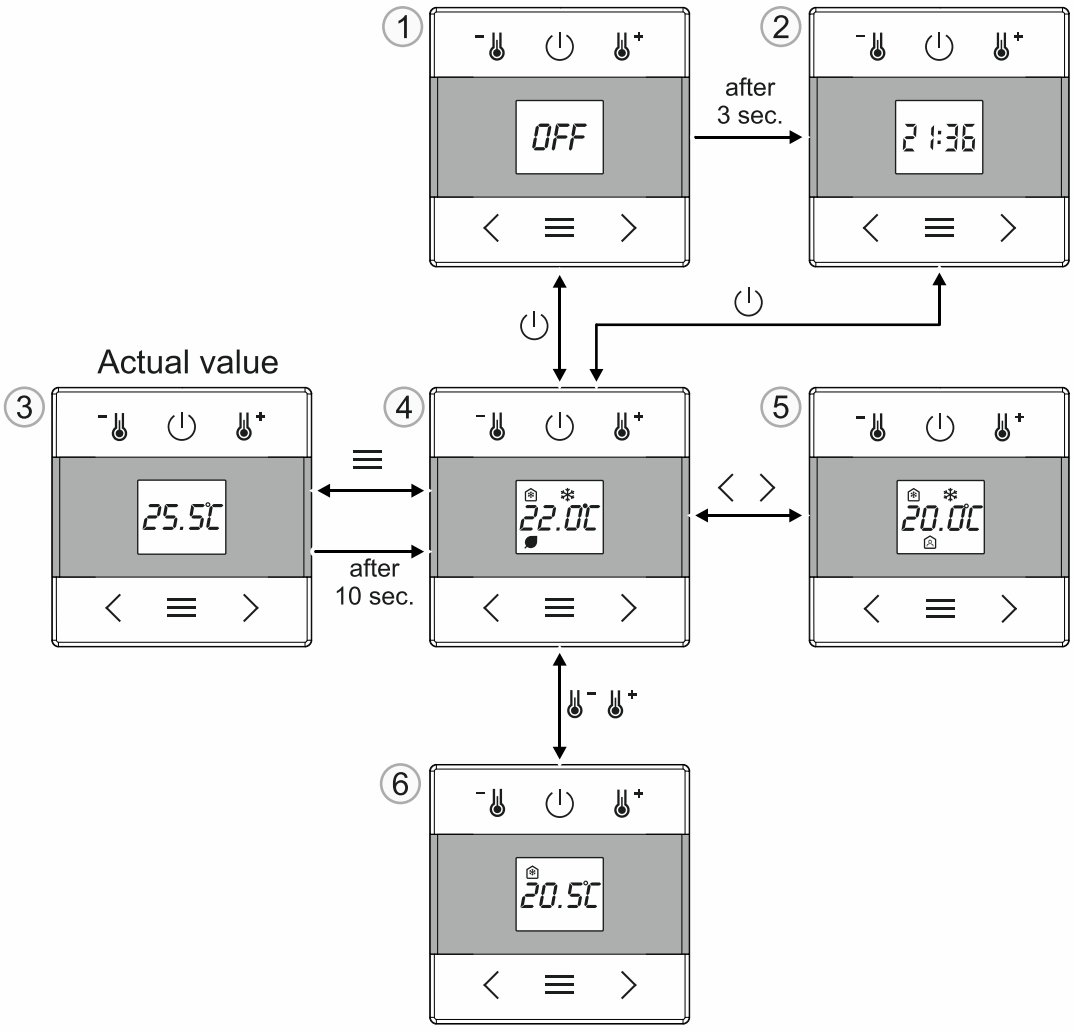


Fig. 29: Local operation with enabling of the cooling function

9.1.4 Comfort/ECO

In operating modes “Comfort” or “Eco”, the setpoint temperature can be set either via the local operation or via the app.

9.1.5 Operating mode selection

To change the operating mode, see Chapter 8.8.1 “Specifying the operating mode“ on page 53.

9.2 Error messages

9.2.1 Floor temperature sensor is not connected

For the use of applications "Floor control" and "Room temperature control / floor temperature limitation" a floor temperature sensor must be connected.

If there is no floor temperature sensor connected and one of the applications is activated, a message is displayed instead of the main menu.

- The buttons have no function.
- The controller carries out a PWM heating control with a 30% ON period.
- The message in the display flashes changing between “SEnS” and “FAIL”.

10 Maintenance

10.1 Cleaning

Caution! - Risk of damaging the device!

- When spraying on cleaning agents, these can enter the device through crevices.
  - Do not spray cleaning agents directly onto the device.
- Aggressive cleaning agents can damage the surface of the device.
  - Never use caustic agents, abrasive agents or solvents.

Clean dirty devices with a soft dry cloth.

– If this is insufficient, the cloth can be moistened slightly with a soap solution.

11 Notes

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