

xComfort Room Controller Touch



Temperature Regulation User manual

(For software version 3v0.Universal)



- For additional languages and information about xComfort, visit www.eaton.eu/xcomfort or www.xcomfort.com or use the QR-code.
- Für weitere Sprachen und Informationen zum xComfort System besuchen Sie www.eaton.eu/xcomfort oder www.xcomfort.de oder verwenden Sie den QR-code
- Besøk www.xcomfort.no eller www.eaton.eu/xcomfort for andre språk og mer informasjon om xComfort eller bruk QR-koden.
- Pro další jazyky informace o xComfort návštěvy www.eaton.eu/xcomfort nebo www.xcomfort.cz nebo použijte QR kód.
- Voor andere talen en meer informatie over xComfort ga naar www.eaton.nl/xcomfort of www.xcomfort.nl of maak gebruik van de QR-code



Table of contents

1. Introduction.....	1
1.1 Safety instructions.....	1
1.2 Intended use.....	1
1.3 Instructions for disposal.....	1
1.4 About this document.....	1
2. Room Controller Touch	3
2.1 Operation	3
2.2 Child protection.....	4
2.3 Cleaning mode.....	4
2.4 Replacing the batteries.....	5
2.5 Temperature drop (door/window open)	5
3. Operation mode	6
3.1. General	6
3.2 Basic functions.....	7
3.2.1 Show the current room temperature.....	7
3.2.2 Show the current/active setpoint temperature.....	7
3.2.3 Adjust the current setpoint temperature	7
3.2.4 Change the setpoint temperature (operation mode)	8
3.2.5 Show the current level of humidity.....	8
3.2.6 (Optional) Show the outdoor temperature.....	9
3.2.7 (Optional) Show the floor temperature	9
3.2.8 Show the time and the day of the week	9
3.2.9 (Optional) Touch button(s).....	10
3.3 Enhanced functions	11
3.3.1 (Optional) Activate/deactivate the week program	11
3.4 Edit functions.....	12
3.4.1 Change the pre-defined setpoint temperature.....	12
3.4.2 (Optional) Edit the week program timer	13
3.4.3 (Optional) Edit the humidity setpoint	16
3.4.4 (Optional) Edit/set the current time and date	16
3.4.5 (Optional) Edit/set the monthly clock correction factor	18

,



,



1. Introduction

1.1 Safety instructions

This document contains important warnings and safety instructions which must be observed and followed by users. Failure to follow these warnings and safety instructions may cause the Room Controller Touch to malfunction.

1.2 Intended use

The Room Controller Touch has been designed solely for residential use in private homes and small offices. It is not suitable for industrial use.

The Room Controller Touch is designed to facilitate room climate control via an intuitive LCD touchscreen menu.

This document describes the operation of the Room Controller Touch if used in temperature-based control mode. The Effect regulation mode is described in a separate user manual.

	The Room Controller should be set to temperature-based control mode during installation. This mode is active if the temperature screen displays a temperature (° C) instead of a percentage value (%). Contact your installer for more information.
---	---

In temperature-based control mode the measured temperature is used to control the room climate.

	Since the transmission of radio signals is based on a non-exclusive communication channel, interference is possible. As a result, the Room Controller Touch must not be used to control components with safety-related functions, such as devices for protection against overheating, emergency stop or emergency call.
---	---

The use of the device for any purpose other than that described in this document, and failure to observe the warnings and safety instructions it contains, will immediately invalidate the warranty and/or any liability claims.

1.3 Instructions for disposal

Do not dispose of this device with regular domestic waste.

	Electronic equipment must be disposed of at local collection points for waste electronic equipment and in compliance with the local regulations governing waste electrical and electronic equipment.
---	--

1.4 About this document

These operating instructions are intended for end users and describe the operation and menu structure of the Room Controller Touch with software version 3.00.U or higher. This document only describes the functioning of the software version ending in ".U". The operating instruction for the software version ending in ".L" are described in the user manuals for that version.

,



Note: The software version is displayed during power-up of the Room Controller Touch, e.g. Display '123.U' -> Version: 1.23.U.

Certain functions and their availability require the Room Controller Touch to be configured during installation. These functions are marked as *(Optional)*.



Please contact a suitably qualified electrical engineer for assembly, installation and basic configuration of the device, as well as for its disposal. Faulty installation or configuration may pose a danger to property and persons.



2. Room Controller Touch

2.1 Operation

The Room Controller Touch is equipped with a backlit display with touch function. The touchscreen is used to display the information needed for operating the Room Controller Touch.

Note: The display is designed to respond to push action only. Compared to the touch displays commonly found in smartphones or tablets it may therefore be necessary to press the screen a little more firmly.

In the **idle state**, the display shows the latest selected information menu with the backlight switched off. Once it is touched, the display enters the **active state**. In this state, the backlight is switched on, and if connected to the xComfort Bridge, the display will refresh to get the latest status data.

Note: To maximize the battery life, there may be a slight delay between the information displayed in the **idle state** and the actual status as shown in the xComfort Bridge. The maximum possible delay can be reduced by the installer, but this will lead to a reduction in battery life. In all other configurations the display will always show the latest information.

Request status

-  Heating request
-  Cooling request
-  Ventilation request

Pre-defined temperature setpoints

-  Frost protection
-  Night / standby
-  Economy
-  Day / comfort

Screen selection

-  Temperature
-  Humidity
-  Clock
-  Outdoor temperature



Various

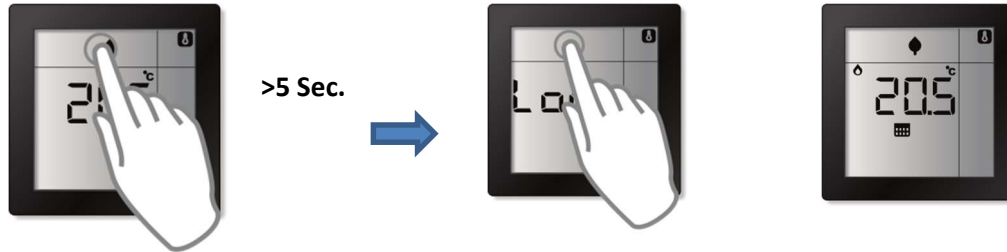
- % °C °F** Units of measurement
-  Settings
-  Touch button
-  Floor temperature (regulation active)
-  Low-battery indicator

Week program timer

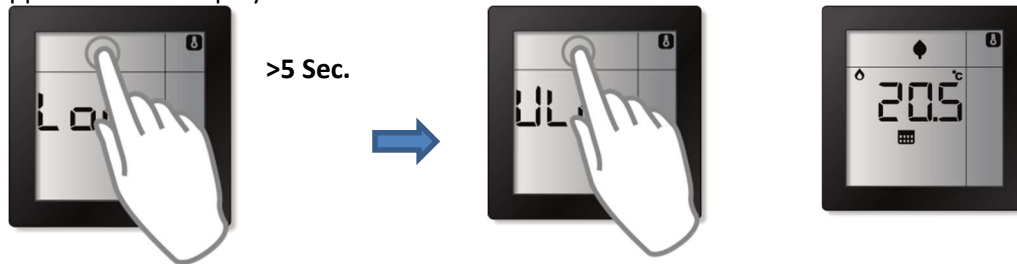
- On**
-  Weekly program timer activity status
- Off**
- M T W** Day of the week
- T F S** Day of the week
- 1 2 3** Program timer switch time
- 4 5 6** Program timer switch time

2.2 Child protection

To prevent any unwanted changes, the display can be locked by pressing it at the top for approximately 5 seconds until 'Loc.' (flashing) appears on the display.



To unlock the display, again press the top area for approximately 5 seconds until 'ULoc' (flashing) appears on the display.



When locked, the Room Controller Touch will ignore any touch activity on the display; if touched, it will display 'Loc.' (flashing) for a short period, after which it will return to the idle state.



2.3 Cleaning mode

To prevent any unwanted changes during the cleaning of the Room Controller Touch, the display can be put into cleaning mode.

	The Room Controller Touch must only be cleaned with glass cleaner or window cleaner, and never with abrasive products.
--	---

In cleaning mode, the Room Controller Touch will ignore any touching activity on the display. The display will then show the remaining time in seconds until the Room Controller Touch switches back to normal operation.



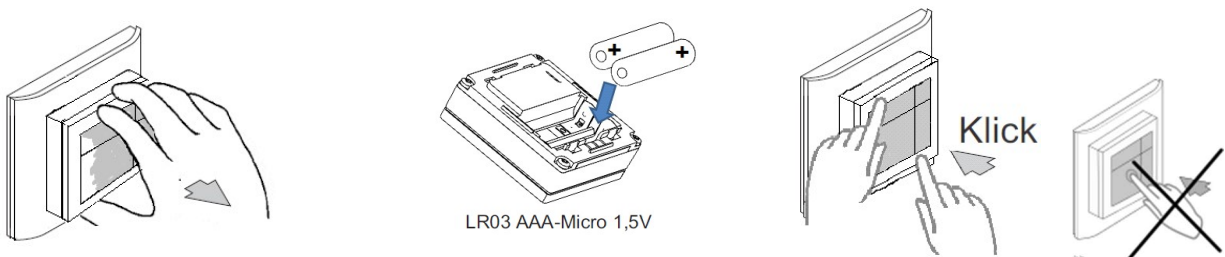


2.4 Replacing the batteries

The Room Controller Touch operates with 2x LR03 (AAA) batteries, which are located in the rear section of the device.

Replace the batteries once the low battery indicator  appears on the display.

Note: Optionally, the Room Controller Touch can also be used with an external power adapter. In this case, batteries are not required. Contact your installer for more information.



 Do NOT press the center of the display when mounting the device!! To correctly mount the device, use both hands and press the outer frame of the Room Controller Touch instead.

  Used batteries should not be disposed of with regular domestic waste. They should be taken to a battery disposal point.

 Never recharge standard batteries!! This entails a risk of explosion.
Do not throw the batteries into fires.
Do not short-circuit the batteries.

2.5 Temperature drop (door/window open)

To prevent energy waste, the Room Controller Touch will automatically turn off the heating for 15 minutes if it detects a rapid temperature drop (a temperature decrease of more than 0.5 °C over a period of 2 minutes), for example if a door or window has been left open. In this state, the heating symbol will disappear and 'Off' will appear on the display. This can be overruled by pressing the 'Off'. The Room Controller Touch will then immediately return to normal operation.



3. Operation mode

3.1. General

The operational functions of the Room Controller Touch are grouped as follows:

- **Basic** functions (the most frequently used functions)
- **Enhanced** functions (functions that are only used occasionally)
- **Edit** functions (functions for changing the settings)

Note: To start operating the Room Controller Touch and to activate the display, touch the screen once.

To maximize the battery life, the Room Controller Touch display will enter the **idle state** after a period of inactivity. In this state, the display shows the latest selected screen with the backlight switched off. Touching the display will return it to the **active state**. In this state, the backlight is switched on, and when connected to the xComfort Bridge, the display will refresh to obtain the latest status information.

Note: To return from the submenus to the main screen, press the 'screens selection' area at the top right of the display. The display will automatically switch back to the main screen if it is not touched for 5 seconds.

Basic functions (section 3.2)

- Show the current temperature
- Adjust the current setpoint temperature
- Show the current setpoint temperature
- Change the pre-defined setpoint temperature (operation mode)
- Show the current level of humidity
- *(Optional)* Show the outdoor temperature
- *(Optional)* Show the floor temperature
- *(Optional)* Show the time and the day of the week
- *(Optional)* Touch button(s)

Enhanced functions (section 3.3)

- Select the regulation mode; heating, cooling, *(optional)* heating & cooling or OFF mode
- *(Optional)* Switch the week program timer ON or OFF

Edit functions (section 3.4)

- Edit the pre-defined setpoint temperatures
- *(Optional)* Edit the week program
- *(Optional)* Edit the humidity setpoint
- *(Optional)* Edit the time and date
- *(Optional)* Edit the clock correction factor

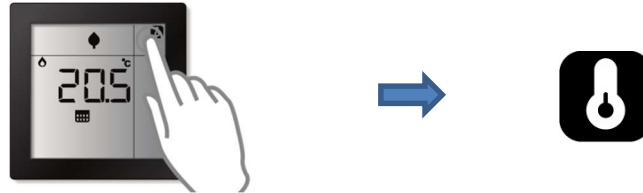
,



3.2 Basic functions

3.2.1 Show the current room temperature

The temperature screen shows the current temperature.



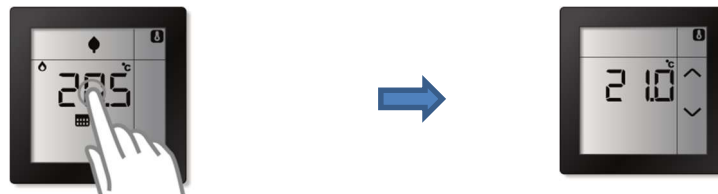
3.2.2 Show the current/active setpoint temperature

This will display the currently active setpoint (desired) temperature for regulating the climate in the room.

Start



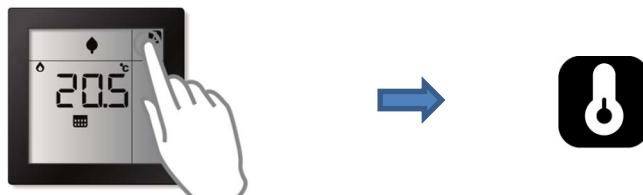
Step 1



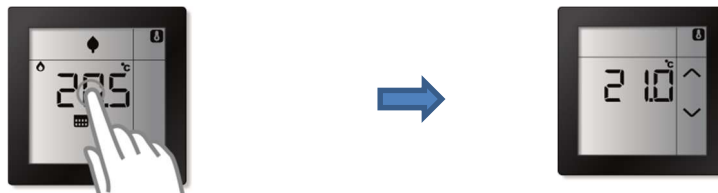
3.2.3 Adjust the current setpoint temperature

It is possible to increase or decrease the currently active setpoint temperature. Any increase or decrease will permanently change the predefined setpoint temperature.

Start



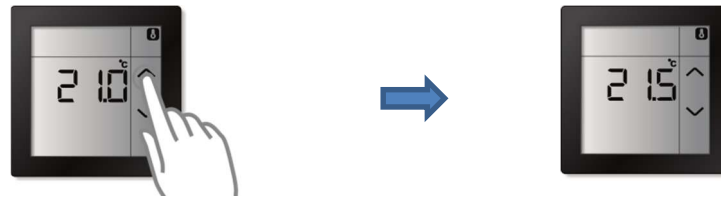
Step 1



,



Step 2

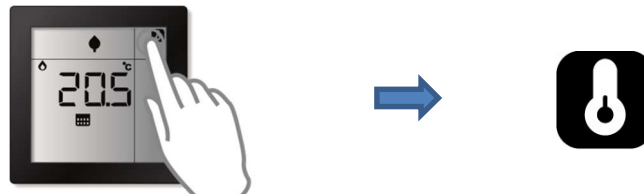


3.2.4 Change the setpoint temperature (operation mode)

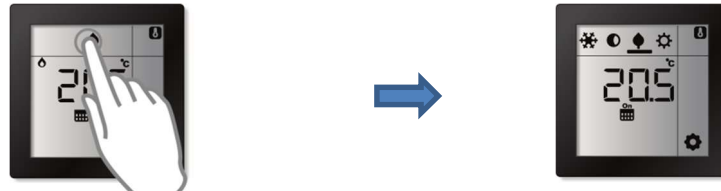
To simplify changing the desired setpoint temperature during the day, the Room Controller Touch supports different pre-defined and reprogrammable setpoint temperatures (operation modes). It is possible to manually switch between these pre-defined setpoint temperatures. The pre-defined setpoints can also be used in the week program (if enabled) to automatically switch between the different setpoint temperatures at a set time.

Note: Manually changing the active setpoint temperature (operation mode) will deactivate the week program.

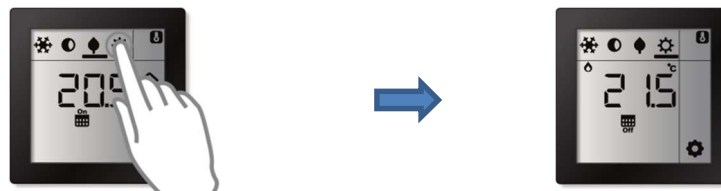
Start



Step 1

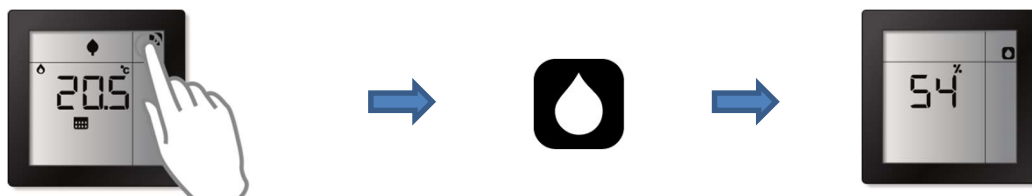


Step 2



3.2.5 Show the current level of humidity

The Room Controller Touch also measures the humidity levels in the room, and these can be displayed by selecting the humidity screen on the display.



3.2.6 (Optional) Show the outdoor temperature

This option is available if, during installation, the external temperature sensor input is configured for use as an outdoor temperature sensor or if the Room Controller Touch is connected to an intelligent device that provides information about the outdoor temperature.



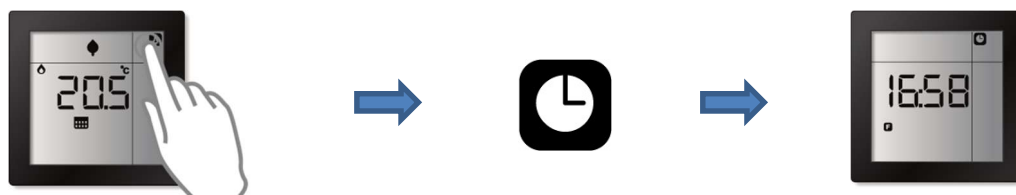
3.2.7 (Optional) Show the floor temperature

This function is available if, during installation, the external temperature sensor input is configured to be used as a floor temperature sensor.



3.2.8 Show the time and the day of the week

The current time and the day of week can be displayed.



3.2.9 (Optional) Touch button(s)

The touch buttons of the Room Controller Touch can be used, for example, as pushbuttons to control the lights, shutters/blinds in the room, or to trigger scenes in the xComfort Bridge.

Note: To implement this function, an actuator or intelligent device must be connected to the touch button(s) of the Room Controller Touch during installation. Contact your installer for more information.

The Room Controller Touch has up to two touch buttons . The two touch buttons will function as one 2-pole pushbutton. The touch button on the left controls the ON/UP (short/long press) function while the one on the right handles the OFF/DOWN function.

,



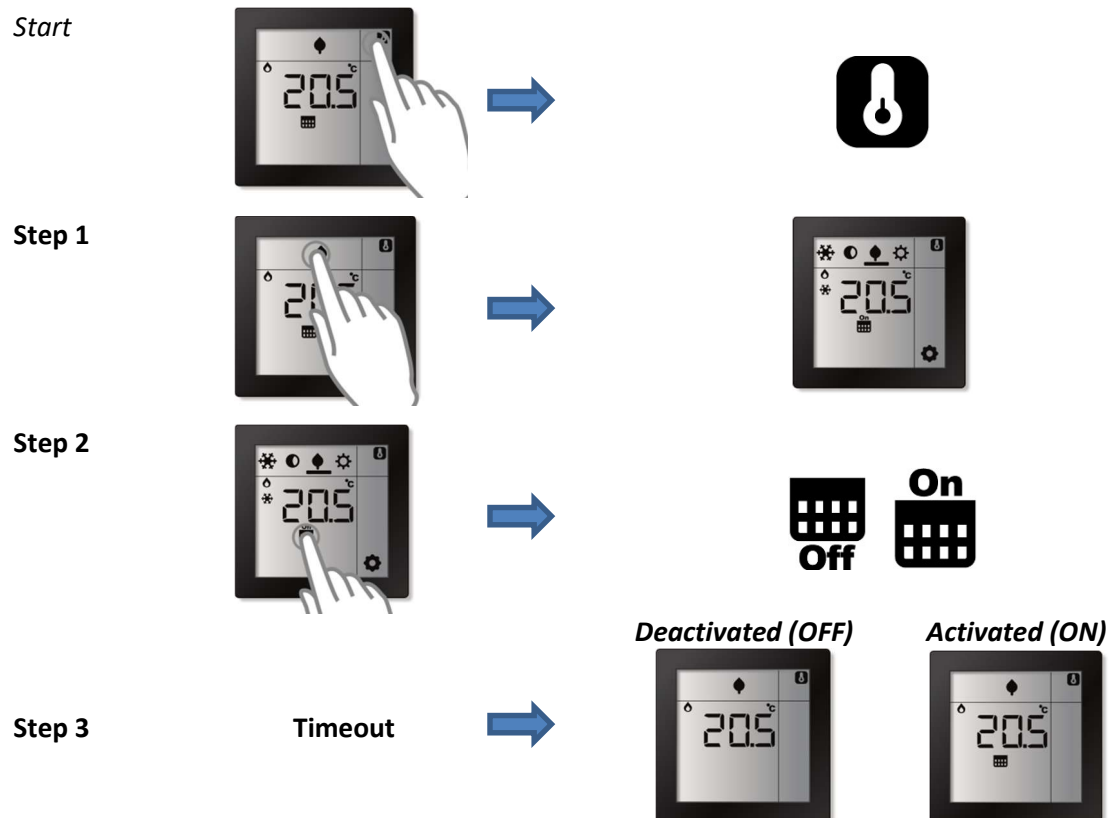
3.3 Enhanced functions

3.3.1 (Optional) Activate/deactivate the week program

The week program can be deactivated (OFF) or activated (ON). If it is deactivated, it is only possible to manually switch between the pre-defined setpoint temperatures (operation mode); if it is activated, the operation mode will be based on the programmed week program.

If the week program timer function is enabled during installation, the option to activate or deactivate the week program will be available.

Note: If the week program is activated (ON), the device will switch to the correct operation mode in accordance with the week program for the current time.



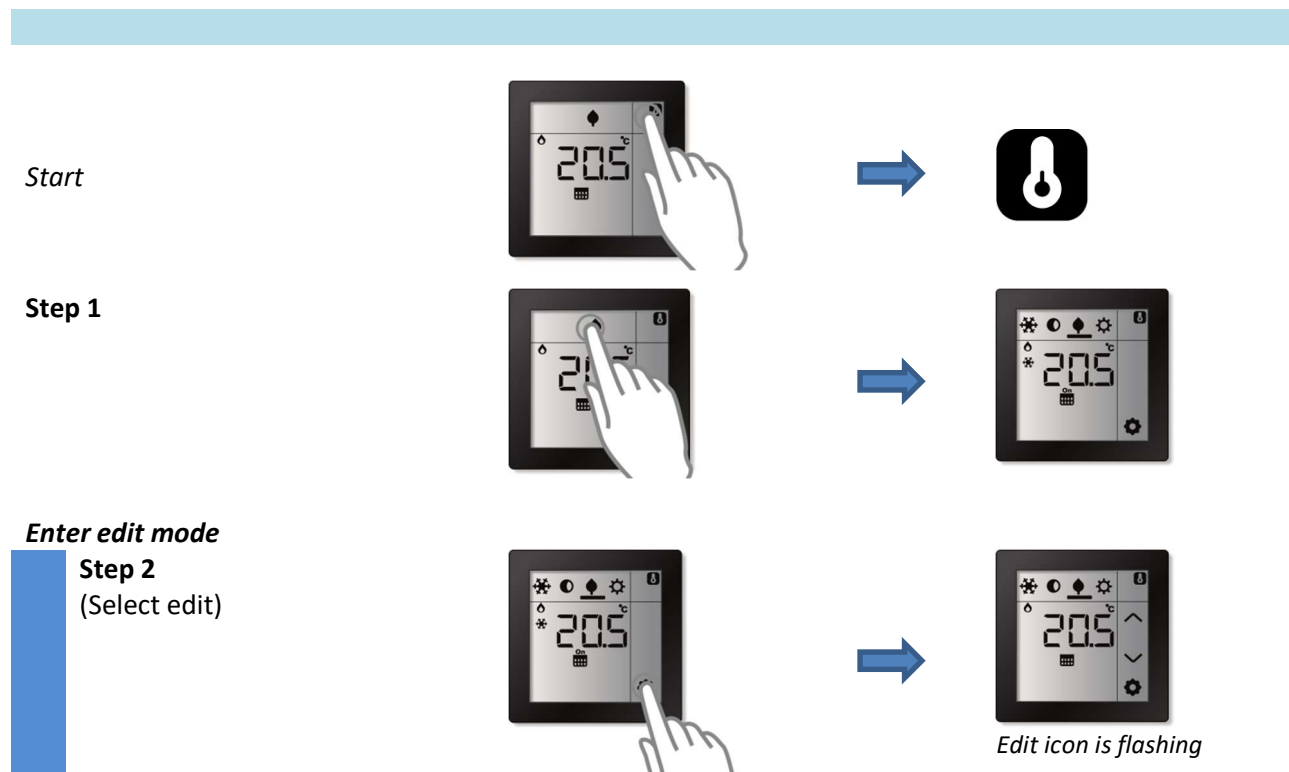
3.4 Edit functions

3.4.1 Change the pre-defined setpoint temperature

The Room Controller Touch supports up to 4 different pre-defined setpoint temperatures (operation modes) which can be manually (re-)programmed via the screen.

	Frost protection mode. Default values of 10 °C
	Standby or night mode. Default not activated
	Economy mode. Default values of 19 °C
	Comfort or day mode. Default value of 21 °C

If connected to the xComfort Bridge, the pre-defined temperature values are the same as the temperature setpoints in the xComfort Bridge. Any manual change on the Room Controller Touch will also change the setpoint in the xComfort Bridge (and vice versa).



Edit the setpoint temperature

Optional
Select the setpoint



Repeat this step for other setpoints as required

Step 3 (Change)



Changed value is flashing

Leave edit mode Step 4

Timeout or



3.4.2 (Optional) Edit the week program timer

The week program timer will only be available if it is enabled during installation.

If connected to the xComfort Bridge, the latter will manage the climate control function based on the week program that has been configured on that device. Any changes to the week program should therefore be made on the xComfort Bridge.

For each day of the week, the Room Controller Touch supports up to 6 manually (re-)programmable timeslots during which it will switch from one setpoint temperature (operation mode) to another.

Start



,

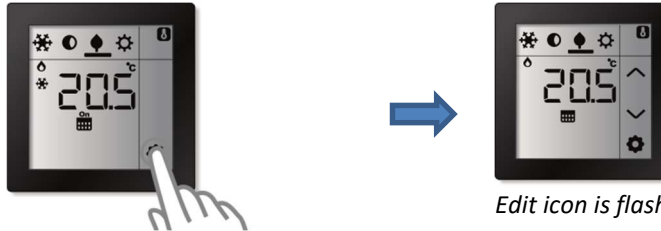


Step 1



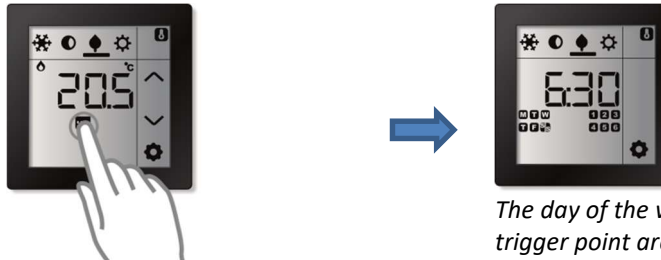
Enter edit mode

Step 2
(Select edit)



Edit icon is flashing

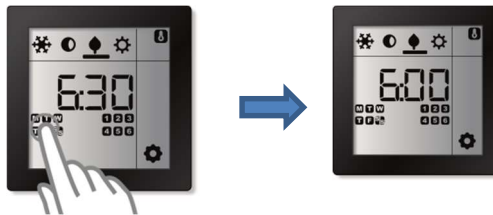
Step 3
(Enter program edit)



The day of the week and the trigger point are flashing

Enter program edit

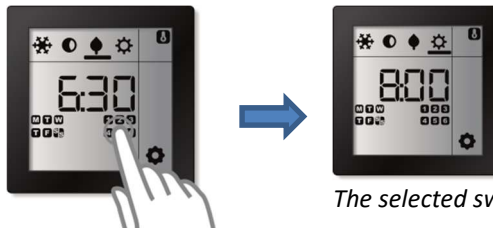
Select the day of the week



The selected day of the week is flashing

Repeat this step

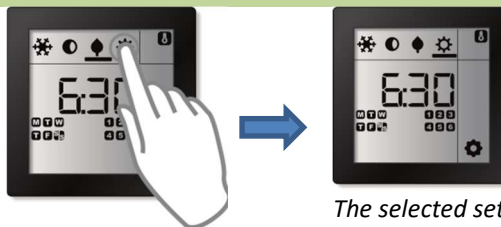
Select the switch point



The selected switch point is flashing

Changing the pre-defined setpoint

Change the pre-defined setpoint



The selected setpoint is underlined

Changing the time (minutes)

Change the time (minutes)

Step 1
(select)



The minutes are flashing

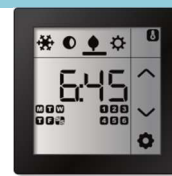
Step 2 (change)



Changing the time (hours)

Change the time (hours)

Step 1 (select)



The hours are flashing

Step 2 (change)



Leave edit mode
(Leave edit mode)

Timeout or

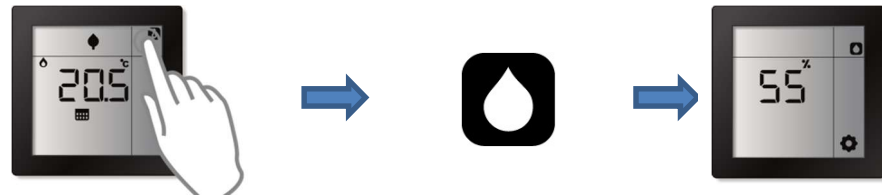


3.4.3 (Optional) Edit the humidity setpoint

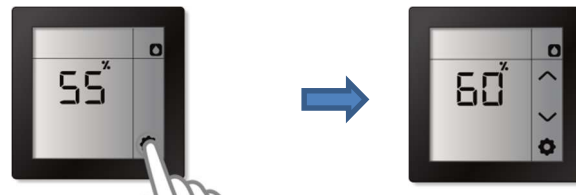
The humidity setpoint can be changed manually. This function is available if a humidity actuator is connected to the Room Controller Touch during installation.

Note: During installation, the installer must set when the Room Controller Touch sends an ON command to the actuator. Either if the humidity level is above or if it is below the setpoint. The ventilation icon is displayed when the ON command has been sent.

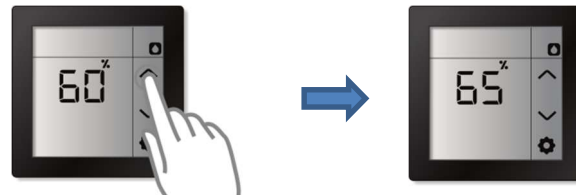
Select the humidity



Enter edit mode



Change



Leave

Timeout or



3.4.4 (Optional) Edit/set the current time and date

The option to set the time and date manually is not available if the Room Controller Touch is connected to a xComfort Bridge. In this case, the time and date are synchronized with the time and date of the xComfort Bridge.

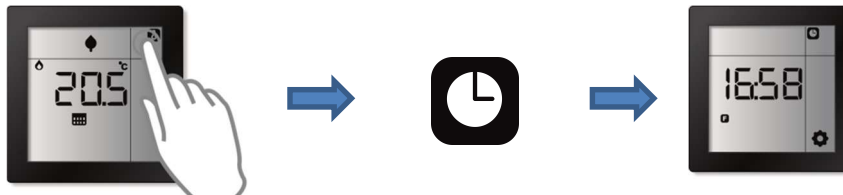


Attention:

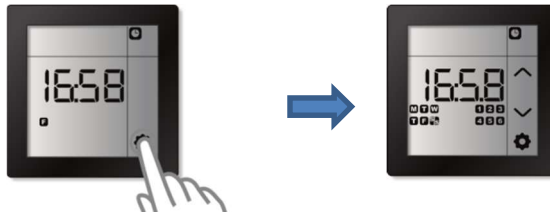
The time and date are used for the execution of the week program. The time and date need to be set correctly in order for the week program to function properly.



Select the clock



Enter edit mode



Select item and change

Repeat this step for each item that needs to be changed

Select



(1-6) is flashing

1 Hours



2 Minutes



3 Day of the month



4 Month



5 Year



Change

Use the arrow keys to change

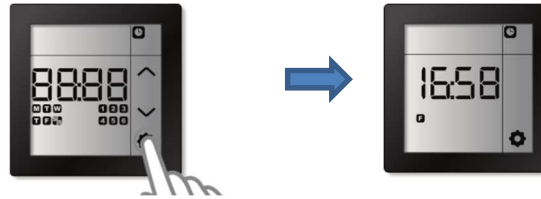


Once changed, the changed value will start flashing



Leave edit mode

Timeout or



3.4.5 (Optional) Edit/set the monthly clock correction factor

If the internal clock of the Room Controller Touch is inaccurate, it is possible to configure the number of seconds by which the clock needs to be corrected each month (-99 to +99 seconds).

Note: The accuracy of each clock may vary slightly, which may cause it to go out of sync with the current time. This will then cause the week program to switch to the desired setpoint temperature either too early or too late.

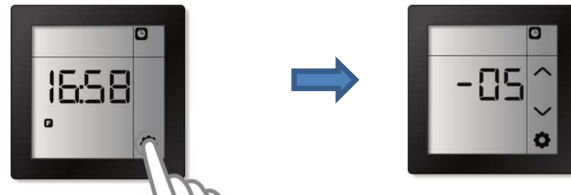
This option is only available if the clock function is enabled during installation and if the Room Controller Touch does not receive the time and date from another device.

Select the clock

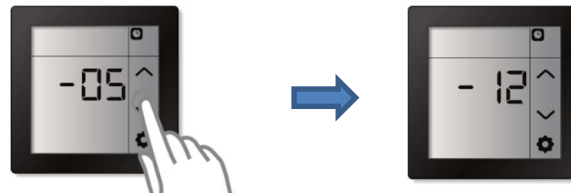


Enter edit

Press edit > 5 Sec



Change



Leave edit





© Eaton Industries (Austria)
Eugenia 1
3943 Schrems
Austria
www.xcomfort.com
www.eaton.eu/xcomfort

,

