

# MAX!

## Wall Thermostat+



Operating manual

BC-TC-C-WM-4

## Scope of delivery

Quantity	Item
1x	MAX! Wall Thermostat+
1x	Clip-on frame
2x	Plug
6x	Screws
2x	Adhesive stripes
2x	1.5 V LR03/micro/AAA batteries
3x	Brief instruction in German/English, French/ Dutch and Polish/Italian

# Table of contents

1	Information about this manual .....	4
2	Safety instructions.....	4
3	Function.....	5
4	Device overview .....	7
5	Start-up .....	9
6	Setting date and time (dAt).....	11
7	Mounting.....	12
8	Mounting in existing switches .....	15
9	Teaching-in.....	16
10	Teaching-out wireless components (UnL) .....	18
11	Operating Modes .....	19
12	Child safeguard/operating lock.....	20
13	Setting heat pause (ON) .....	20
14	Setting frost protection (OFF).....	21
15	Configuration menu.....	21
16	Restore factory settings (rES) .....	32
17	Error messages.....	34
18	Maintenance and cleaning .....	34
19	Information about radio operation .....	35
20	Technical specifications .....	36

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## 1 INFORMATION ABOUT THIS MANUAL

Read this manual carefully before starting to use the device. Keep the manual so you can refer to it at a later date if you need to. If you hand over the device to other persons for use, please hand over the operating manual as well.

### Symbols used:



#### **Attention!**

This indicates a hazard.



#### **Note.**

This section contains important additional information.

## 2 SAFETY INSTRUCTIONS



The device is not a toy; do not allow children to play with it. Do not leave packaging material lying around, as it can be dangerous in the hands of a child.



Do not open the device: it does not contain any components that need to be serviced by the user. In the event of an error, please return the device to the service department.



The device may only be operated indoors and must be protected from the effects of damp and dust, as well as solar or heat radiation.



Using the device for any purpose other than that described in this operating manual does not fall within the scope of intended use and shall invalidate any warranty or liability. This also applies to any conversion or modification work. The device is intended for private use only.

### 3 FUNCTION

The MAX! Wall Thermostat+ is responsible for regulating the room temperature within the MAX! system. With the MAX! Wall Thermostat+ up to 8 MAX! Radiator Thermostats can be comfortably regulated in a room.

The MAX! Wall Thermostat+ has an internal sensor that measures the temperature in the room and cyclically transmits it to the radiator thermostats.

Communication between the MAX! components is bidirectional. This ensures that the information sent reaches the recipient.

The configuration of the MAX! Wall Thermostat+ is made according to the system variant used. You have the possibility to choose between the following two variants:



### **MAX! House solution**

This is the solution for the entire house. With a MAX! Cube, all settings of connected devices in the house can comfortably be made via the MAX! software.

By using the MAX! Cube, several MAX! Radiator solutions and MAX! Room solutions can be connected to a MAX! House solution in a new installation.



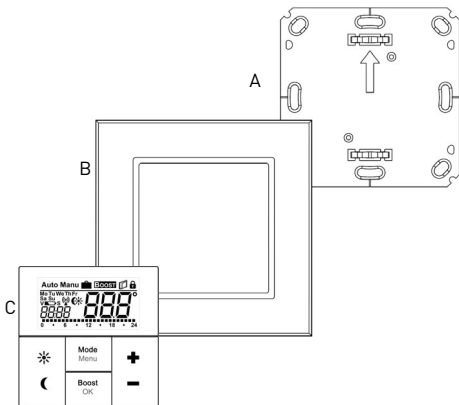
### **MAX! Room solution**

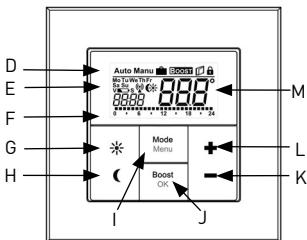
In the room solution, the settings of all connected devices in your room can comfortably be made via the MAX! Wall Thermostat<sup>+</sup>. Up to 8 MAX! Radiator Thermostats<sup>+</sup> and 8 MAX! Window Sensors can be connected and controlled via the MAX! Wall Thermostat<sup>+</sup>.

With a MAX! Cube, the solution can be extended to a House solution.

## 4 DEVICE OVERVIEW

- (A) Mounting plate
- (B) Clip-on frame
- (C) Electronic unit/push-button





- (D) Automatic mode (**Auto**), manual mode (**Manu**), holiday function (📅), boost function (**BOOST**), open-window function (🔲), operating lock (🔒)
- (E) Weekday, empty battery symbol (🔋), radio synchronicity (📶), comfort/reduction temperature (☀️/🌙), time/date
- (F) Bar chart of the programmed heating phases of the current day
- (G) Comfort temperature button (☀️): switching to comfort temperature
- (H) Reduction temperature button (🌙): switching to reduction temperature
- (I) Mode/Menu button: change the operating mode and open the configuration menu; exit/back in the menu
- (J) Boost/OK button: confirm settings and activate the boost function
- (K) (-) button: reduce the setpoint temperature, browse in the menu
- (L) (+) button: increase the setpoint temperature, browse in the menu
- (M) Setpoint/actual temperature



## 5 START-UP

### 5.1 INSERTING (REPLACING) BATTERIES

#### **As-delivered condition**

When you are starting up the device for the first time, first remove the mounting plate (A) on the rear of the MAX! Wall Thermostat<sup>+</sup>.

- Hold the MAX! Wall Thermostat<sup>+</sup> firmly in one hand and pull off the mounting plate at one corner.

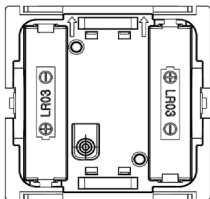
#### **Mounted condition**

Once mounted, the MAX! Wall Thermostat<sup>+</sup> can easily be pulled off the mounting plate and out of the frame.

- Pull sideways at the frame to remove the MAX! Wall Thermostat<sup>+</sup> of the wall together with the frame.

#### **Replacing batteries**

- Turn the MAX! Wall Thermostat<sup>+</sup> over to remove or insert the batteries.
- After removing the old batteries, please wait approx. 60 seconds.
- Insert two LR03/micro/batteries in the battery compartments (making sure that you insert them the right way round).
- Put the MAX! Wall Thermostat<sup>+</sup> back into the frame (B).



The empty battery symbol (🔋) indicates that the batteries need to be changed. If, in addition, a "V" or "S" are displayed, the batteries of a taught-in Radiator Thermostat (V) or Window Sensor (S) have to be replaced.



Never recharge standard batteries. Do not throw the batteries into a fire. Do not expose batteries to excessive heat. Do not short-circuit batteries. Doing so will present a risk of explosion.



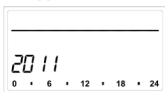
Used batteries should not be disposed of with regular domestic waste! Instead, take them to your local battery disposal point.

## 6 SETTING DATE AND TIME (dAt)

After inserting or replacing batteries the firmware version number will be shown briefly. Accordingly, date and time will be requested automatically. Settings can be changed with the (+) and (-) buttons and confirmed with the Boost/OK button.

- Set the year, month and date and confirm each setting with the Boost/OK button.

Year:

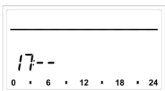


Month and day:



- Set the time and confirm your settings with the Boost/OK button.

Hours:



Minutes:



Once the time and date were entered, the MAX! Wall Thermostat+ changes back to normal operating mode.



If the MAX! Wall Thermostat+ was taught-in to the MAX! Cube, the current date and time will be transferred automatically.



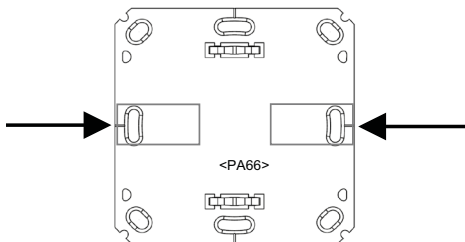
During operation without Cube date and time can be changed at any time via "dAt" in the configuration menu (see sec. „6 Setting date and time (dAt)" on page 11).

## 7 MOUNTING

You can either use screws or adhesive strips to mount the MAX! Wall Thermostat<sup>+</sup> to a wall in the frame supplied or integrate it into an existing switch (see sec. „8 Mounting in existing switches" on page 15).

### **Adhesive strip mounting:**

- Choose a site for installation. The surface on which you are mounting the push button must be clean, dry and greaseless.
- For mounting of the assembled MAX! Wall Thermostat<sup>+</sup>, attach the adhesive strips to the back side of the mounting plate (A). You should be able to read the letters on the back side (according to figure).



- Remove the protective film from the adhesive strips.
- Press the assembled MAX! Wall Thermostat+ with the back side to the wall in the position where it should subsequently be attached.

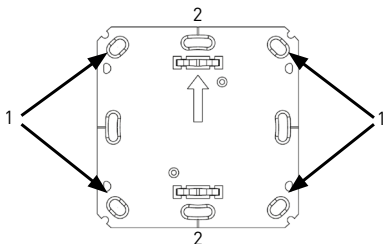
### Screw mounting:

- Choose a site for installation.

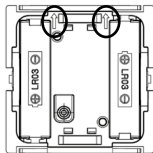


Make sure that no electricity or similar lines run in the wall at this location.

- Position the mounting plate on the desired site on the wall. Make sure that the arrow on the mounting plate is pointing upwards.
- Use a pen to mark the positions of 2 bore holes (1) (diagonally opposite) in the mounting plate on the wall. The bore holes (2) can be used for installation with a flush-mounting box.



- Now drill the bore holes. If you are working with a stone wall, drill the marked two 5 mm holes and insert the plugs supplied. If you are working with a wooden wall, you can pre-drill 1.5 mm holes to make screws easier to insert.
- Use the screws and plugs supplied to fasten the mounting plate to the wall.
- Attach the MAX! Wall Thermostat+ with the frame on the mounting plate. Make sure that the arrows on the back side of the wall thermostat point upwards and that the clips on the mounting plate latch into the openings on the wall thermostat.



## 8 MOUNTING IN EXISTING SWITCHES

You can mount the MAX! Wall Thermostat<sup>+</sup> with the attachment frame provided or use it with frames of other manufacturers as well as integrate the electronic unit into a multi-gang frame. In both cases, mounting with adhesive strips and screws is possible. For mounting with multiple combinations, make sure that the mounting plate of the MAX! Wall Thermostat<sup>+</sup> is seamlessly aligned to the already fixed mounting plate/retaining ring.

The MAX! Wall Thermostat<sup>+</sup> is designed to fit into frames supplied by the following manufacturers:

Manufac-turer	Frame
Berker	S.1, B.1, B.3, B.7 glass
ELSO	Joy
GIRA	System 55, Standard 55, E2, E22, Event, Esprit
merten	1-M, Atelier-M, M-Smart, M-Arc, M-Star, M-Plan
JUNG	A 500, AS 500, A plus, A creation

## 9 TEACHING-IN

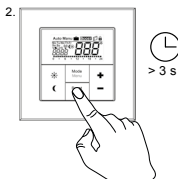
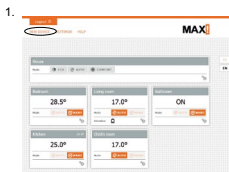
In order to use the MAX! Wall Thermostat<sup>+</sup> in your installation, you must teach it in to the MAX! system. The teach-in procedure depends on the system variant used. Choose your system variant (House or Room solution) and follow the instructions below.



### MAX! House solution

In the MAX! House solution all settings and programming (e.g. week programs) can be made via the MAX! software.

- Start the local MAX! software and click on "New device".
- Press and hold down the Boost/OK button of the MAX! Wall Thermostat<sup>+</sup> for at least 3 seconds to activate teach-in mode.



- The antenna symbol appears in the display and the MAX! Wall Thermostat<sup>+</sup> appears in the MAX! software.
- Click on "Next" in the software to give the device a name and assign it to a room.
- The MAX! Wall Thermostat<sup>+</sup> is now integrated into



the system and can be configured for each room via the MAX! software.



As soon as the MAX! Wall Thermostat<sup>+</sup> has been taught-in to the MAX! Cube, all data such as date, time or week program are transmitted to it via radio connection.



If you want to add a MAX! Cube to your system subsequently, a factory reset must be performed for all devices (incl. MAX! Wall Thermostat<sup>+</sup>) prior to teaching-in to a MAX! Cube. All settings including your weekly profiles are deleted in this process.

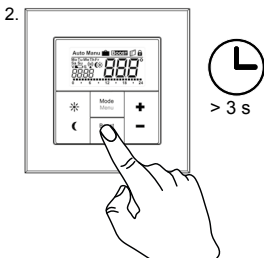


### **MAX! Room solution**

In the MAX! Room solution, you can control up to 8 MAX! Radiator Thermostats<sup>+</sup> and 8 MAX! Window Sensors via the MAX! Wall Thermostat<sup>+</sup>. For this purpose teach-in the devices directly to the MAX! Wall Thermostat<sup>+</sup>. These then take over the settings of the MAX! Wall Thermostat<sup>+</sup> (e.g. mode, temperature, week program).


To teach in, proceed as follows:


- Put the device to be taught-in (e.g. MAX! Radiator Thermostat<sup>+</sup>) into teach-in mode (according to the corresponding operating manual).
- Press and hold down the Boost/OK button of the MAX! Wall Thermostat<sup>+</sup> for at least 3 seconds to activate teach-in mode.



- The antenna symbol (📶) and the remaining teach-in time (30 seconds) will be displayed.
- If teach-in has been successful, the MAX! Wall Thermostat+ will change back to normal operating mode.

## 10 TEACHING-OUT WIRELESS COMPONENTS (UnL)

 In the MAX! House solution, teaching-out of the MAX! Wall Thermostat+ will be made via the MAX! software.

 In the MAX! Room solution, use the function "UnL" in the menu to teach-out devices that are taught-in to the MAX! Wall Thermostat+ (e.g. MAX! Radiator Thermostat+). All radio components are taught-out simultaneously.

To teach-out devices, proceed as follows:

- Press and hold down the Mode/Menu button for more than three seconds.
- Select the "UnL" menu item with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.
- "ACC" (accept) appears on the display. Confirm the teach-out procedure using the Boost/OK button.
- All connected devices have now been taught-out from the MAX! Wall Thermostat<sup>+</sup>.

## 11 OPERATING MODES

You can choose between the operating modes auto, manu and holiday function:

**Auto:** Week program – automatic temperature control according to configured week program.

**Manu:** Manual operation – the temperature is set manually with the (+) and (-) buttons.

**Holiday function** (🗑️): Setting a temperature, which has to be maintained until a fixed point in time.

**Boost** (BOOST): Setting the boost function



In the MAX! House solution you can configure the settings for the MAX! Wall Thermostat<sup>+</sup> via the MAX! software.



In the MAX! Room solution you can change between the functions by pressing the mode button shortly.



If the operating mode is changed on one device in a room, this change is applied on all radiator thermostats assigned to that room.

## 12 CHILD SAFEGUARD/OPERATING LOCK

Operation of the MAX! Wall Thermostat<sup>+</sup> can be locked to prevent settings being changed inadvertently (if somebody touches the thermostat accidentally, for example).

- To activate/deactivate the operating lock, briefly press the Mode/Menu and the Boost/OK button simultaneously.
- Once activated, the operating lock symbol (🔒) is shown on the display.

## 13 SETTING HEAT PAUSE (ON)

Battery life can be prolonged by switching the heating off in summer. To achieve this, the valves are opened fully. The calcification protection continues to run.

- In manual operation (Manu) press the (+) button until "ON" is shown on the display.
- Exit manual operation (Manu) or press the (-) button

until the desired temperature is set.

## 14 SETTING FROST PROTECTION (OFF)

If the room does not need to be heated, the valve can be closed. The valve is only opened if there is a risk of frost. The calcification protection function continues to run. To activate this, proceed as follows:

- In manual mode (Manu), press the (-) button until "OFF" appears on the display.
- To finish, exit manual operation (Manu) or press the (+) button.

## 15 CONFIGURATION MENU



If you use the MAX! Wall Thermostat+ in a MAX! House solution, you can conveniently set the functions described in the following chapters via the MAX! software for each room.






The following steps explain how these functions are set in the MAX! Room solution. In connection with the MAX! Cube, these functions are deactivated at the MAX! Wall Thermostat+.

When using the device within the MAX! Room solutions, the settings can be made in the configuration menu. The menu can be called up by pressing the Mode/Menu button

of the MAX! Wall Thermostat+ for more than 3 seconds.

The menu items are selected with the (+) and (-) button and confirmed with the OK button. If you press the Mode/Menu button once more, this takes you back to the previous level. The menu closes automatically after 60 seconds of inactivity. The following settings can be made:

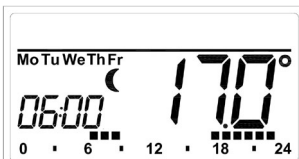
Menu item	Meaning
dAt:	Change time and date (see sec. „6 Setting date and time (dAt)“ on page 11)
UnL:	Teach-out wireless components (UnL) (see sec. „10 Teaching-out wireless components (UnL)“ on page 18)
Pro:	Set week program (see sec. „15.1 Setting the week program (Pro)“ on page 23)
t-d:	Switch time and date display (see sec. „15.2 Switching time/date display (t-d)“ on page 26)
	Set comfort and reduction temperature (see sec. „15.4 Set comfort and reduction temperature“ on page 27)
S-A:	Change display of setpoint and actual temperature (see sec. „15.3 Switching setpoint and actual temperature display (S-A)“ on page 27)
bOS:	Set valve opening and length of “Boost” function (see sec. „15.5 Set boost function (BOOST, bOS)“ on page 28)
	Setting the holiday function (see sec. „15.6 Setting the holiday function ( )“ on page 30)
dEC:	Set valve protection function (see sec. „15.7 Setting routine descaling (dEC)“ on page 31)

AEr:	Set open-window temperature for automatic temperature decrease during ventilation (see sec. „15.8 Set open-window function (  , AEr)“ on page 31)
tOF:	Set temperature offset (see sec. „15.9 Setting offset temperature (tOF)“ on page 32)
rES:	Restoring the factory settings (see sec. „16 Restore factory settings (rES)“ on page 32)

## 15.1 SETTING THE WEEK PROGRAM (Pro)

In the week program, for each weekday up to 6 heating phases (13 change settings) can be set separately. The programming is carried out for the days chosen, whereby temperature settings have to be set for the entire period between 00:00 and 23:59.

- Press the Mode/Menu button for at least 3 seconds. The display will show “Pro”.
- Confirm with the Boost/OK button. “dAy” appears on the display.
- You can use the (+) and (-) buttons to select a single day of the week, all weekdays, the weekend, or the entire week (weekdays has been selected in the example).
- Confirm your selection using the Boost/OK button.
- Now set the end time of the first time period (example: 6:00 h for the period 0:00 – 6:00 h) with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.
- With the (+) and (-) buttons select the chosen temperature for the previously chosen time period (example: 17.0°C).



- Confirm your selection using the Boost/OK button.
- Repeat this procedure until temperatures are stored for the entire period between 0:00 and 23:59 h.

In Auto mode the selected week program will be automatically adopted by all taught-in MAX! Radiator Thermostats. The temperature can be changed at any time with the (+) and (-) buttons or comfort (☼) and reduction temperature (☾) buttons. The modified temperature will then remain the same until the next point at which the program changes.

### Week program: Examples

For each day of the week up to 6 heating phases (13 change settings) with individual temperature settings can be saved with the MAX! Wall Thermostat<sup>+</sup>. The factory settings are as follows:



**Monday-Friday:**

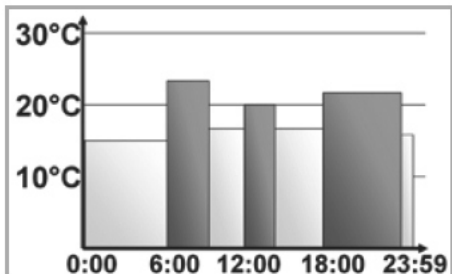
from 00:00	to	06:00 h	17.0 °C
from 06:00	to	09:00 h	21.0 °C
from 09:00	to	17:00 h	17.0 °C
from 17:00	to	23:00 h	21.0 °C
from 23:00	to	23:59 h	17.0 °C

The display will show bars for those heating phases where the set temperature for the period is higher than the saved reduction temperature.

If a room (e.g. the bathroom) is also to be heated at mid-day, the programming can appear as follows:

**Monday to Sunday:**

from 00:00	to	06:00 h	15.0 °C
from 06:00	to	09:00 h	23.0 °C
from 09:00	to	12:00 h	17.0 °C
from 12:00	to	14:00 h	20.0 °C
from 14:00	to	18:00 h	17.0 °C
from 18:00	to	22:00 h	21.0 °C
from 22:00	to	23:59 h	15.0 °C



## 15.2 SWITCHING TIME/DATE DISPLAY (t-d)

The factory setting will show the time on the display. In the menu the display can be switched to the date.

- Open the configuration menu by pressing the Mode/Menu button for more than 3 seconds.
- Select the “t-d” menu item with the (+) and (-) buttons and confirm with the Boost/OK button.
- Now set the format you want to show on the display (date and time will switch on the display) with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.

### 15.3 SWITCHING SETPOINT AND ACTUAL TEMPERATURE DISPLAY (S-A)

The factory setting will show the setpoint temperature on the display. In the menu the display can be switched to the actual temperature.

- Open the configuration menu by pressing the Mode/Menu button for more than 3 seconds.
- Select the "S-A" menu item with the (+) and (-) buttons and confirm with the Boost/OK button.
- Set the format you want to show on the display („SEt" for the setpoint temperature and „ACt" for the actual temperature) with the (+) and (-) buttons.
- Confirm with the Boost/OK button.

If the actual temperature is selected, the display will show „SEt" for 5 seconds on change of the setpoint temperature (or on change of mode). Afterwards, the display automatically changes back to actual temperature.

### 15.4 SET COMFORT AND REDUCTION TEMPERATURE

The comfort (☼) and reduction (☾) temperature button makes switching between comfort and reduction temperature simple and user friendly. The factory setting for the comfort temperature is 21.0 °C and the reduction temperature 17.0 °C.

When using MAX! without Cube, the comfort and reduction temperature can be changed via corresponding buttons as follows:

- Press and hold down the comfort temperature button (☀) to adjust the comfort temperature or press and hold to the reduction temperature button (☾) to adjust the reduction temperature.
- The display shows the symbol and the corresponding comfort/reduction temperature.
- Change the temperature with the (+) and (-) buttons.
- Confirm with the Boost/OK button.

Even in auto mode, the temperature can be changed at any time using the buttons. The adjustment will then remain the same until the next point at which the program changes.

## 15.5 SET BOOST FUNCTION (BOOST, bOS)

The boost function makes use of human sensations of heat. The heating of a room usually takes longer than 5 minutes, but the heat given off by the radiator can be felt immediately. When the function is activated, the heating valve opens immediately for 5 minutes at 80% (factory setting).

- Shortly press the Boost/OK button to activate the Boost function.
- Once the boost time has elapsed, the radiator thermostat switches back to the mode that was active previously (Auto/Manu), with the temperature that was set previously.
- The boost function can be deactivated prematurely at any time by pressing the Boost/OK button again.

The remaining time for the function is counted down in seconds (e.g. "300" to "000") and **BOOST** is displayed.

The duration and valve opening of the boost function can individually be adjusted:

- Press the Mode/Menu button for at least 3 seconds.
- Select the "bOS" menu item with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.
- Use the (+) and (-) buttons to set the duration of the boost function from 0 to 60 min. (0, 5, 10, 15, 20, 25, 30, 60 min.). The value 0 will deactivate this function.
- Confirm your selection using the Boost/OK button.
- Set the valve opening between 0 and 100% in 5% increments with the (+) and (-) buttons. The larger the valve opening, the higher will be the heat emitted by the radiator.
- Confirm your selection using the Boost/OK button.



If a long boost duration and a large valve opening have been set the radiator can get very hot. After changing the factory setting check that the radiator is not heated excessively.




The boost function will not have an immediate effect if the radiator is covered or concealed (e.g. by a sofa).



If the duration of the boost function is set so that the display exceeds 999 seconds (e.g. via the MAX! Cube), the display value switches from seconds to minutes.

## 15.6 SETTING THE HOLIDAY FUNCTION ( )

If you want to maintain a fixed temperature for a certain period, e.g. during your holidays or a party, the holiday function can be used.

- Briefly press the Mode/Menu button repeatedly, until the suitcase symbol (  ) appears in the display.
- Set the time up to which the temperature is to be maintained.
- Confirm your selection using the Boost/OK button.
- Set the end date until which you want the holiday function to be set.
- Confirm your selection using the Boost/OK button.
- Set the temperature and confirm your settings with the Boost/OK button. The display will flash to confirm.

The set temperature will remain until the set end time. Afterwards, the radiator thermostat will switch back to auto mode. Radio control commands like those from a MAX! Window Sensor or the routine descaling run will still be performed.


## 15.7 SETTING ROUTINE DESCALING (dEC)

The radiator thermostats can protect against valve calcification automatically. Therefore, an automatic routine descaling is performed once a week. The time for performing this function can individually be configured (it is factory set to run at 12:00 on Saturdays).

- Press the Mode/Menu button for at least 3 seconds.
- Select the "dEC" menu item with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.
- Select the weekday with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.
- Select the time with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.

"CAL" is displayed during descaling.

## 15.8 SET OPEN-WINDOW FUNCTION (, AEr)

During ventilation, the MAX! Wall Thermostat+ automatically reduces the temperature in a room in order to save on energy costs. Meanwhile, in this phase the display of the MAX! Wall Thermostat+ and all taught-in devices will show the open-window symbol (.

When a MAX! Window Sensor is used, the opening and closing of a window is detected at the precise time it occurs. Whilst the window is open, the temperature is reduced to the factory setting of 12°C. When the MAX! Window Sensor detects the closing of the window, all MAX! Radiator Thermostats installed in the room are immediately reset to their original mode.

- Press the Mode/Menu button for at least 3 seconds.
- Select the "AEr" menu item with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.
- Change the temperature with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.

## 15.9 SETTING OFFSET TEMPERATURE (tOF)

As the temperature is measured on the MAX! Wall Thermostat<sup>+</sup>, the temperature distribution can vary throughout a room. To adjust this, a temperature offset of  $\pm 3.5$  °C can be set. If a nominal temperature of e.g. 20 °C is set but the room presents with only 18 °C, an offset of -2.0 °C needs to be set.

- Press the Menu button longer than 3 seconds.
- Select the "tOF" menu item with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.
- Use the (+) and (-) buttons to set the temperature you want to maintain during ventilation.
- Confirm your selection using the Boost/OK button.

## 16 RESTORE FACTORY SETTINGS (rES)

The factory settings of the MAX! Wall Thermostat<sup>+</sup> can be restored manually, e.g. if you want to teach-in a Room solution to a MAX! Cube or to re-install an incorrectly operating system. Restoring the factory settings deletes all settings and information about taught-in devices.





In the MAX! House solution (operation with MAX! Cube) first delete the device from the software.



In the MAX! Room solution (operation without MAX! Cube) the factory settings of the MAX! Wall Thermostat+ can be restored as follows:

- Press the Mode/Menu button for at least 3 seconds.
- Select the "rES" menu item with the (+) and (-) buttons.
- Confirm your selection using the Boost/OK button.
- "ACC" will be displayed. Confirm the factory reset with the Boost/OK button.






If the MAX! Wall Thermostat+ has already been taught-in to a MAX! Cube, the configuration menu of the device will be locked.

You can still restore the factory settings as follows:

- Remove a battery and wait for 60 seconds.
- Press and hold down the reduction (☾), OK and the (-) button simultaneously and insert the battery at the same time.
- When "rES" appears on the display, the reset was performed and the buttons can be released.

## 17 ERROR MESSAGES

Error codes	Problem	Solution
Battery symbol (  )	Battery voltage too low	Replace batteries
F4	MAX! Cube already taught-in	Make sure the device is no longer taught-in to the Cube (in the software) and perform a reset. Then you can teach-in the device again.
F5	Temperature sensor defective	Replace device
Slowly flashing antenna symbol (  )	Connection to taught-in MAX! components lost	Check the power supply and the batteries of taught-in MAX! components
Quickly flashing antenna symbol (  )	Duty cycle limit reached	The device can resume radio communication after a waiting time of approx. one hour

## 18 MAINTENANCE AND CLEANING



The product does not require any maintenance. Enlist the help of an expert to carry out any repairs. Clean the product using a soft, lint-free cloth that is clean and dry. You may dampen the cloth a little with lukewarm water in order to remove more

stubborn marks. Do not use any detergents containing solvents, as they could corrode the plastic housing and label.

## 19 INFORMATION ABOUT RADIO OPERATION

Radio transmission is performed on a non-exclusive transmission path, which means that there is a possibility of interference occurring. Interference can also be caused by switching operations, electrical motors or defective electrical devices.



The range of transmission within buildings can differ greatly from that available in the open air. Besides the transmitting power and the reception characteristics of the receiver, environmental factors such as humidity in the vicinity have an important role to play, as do on-site structural/screening conditions.

eQ-3 AG hereby declares that this device complies with the essential requirements and other relevant regulations of Directive 1999/5/EC. You can find the full declaration of conformity at [www.eQ-3.de](http://www.eQ-3.de).

## **20 TECHNICAL SPECIFICATIONS**

Device short description:	BC-TC-C-WM-4
Supply voltage:	2x 1.5 V LR03/micro/AAA
Current consumption:	30 mA (max.)
Battery life:	2 years (typ.)
Degree of protection:	IP20
Ambient temperature:	5 to 50 °C
Dimensions (W x H x D):	86 x 86 x 21.5 mm
Weight:	79 g (not incl. batteries)
Radio frequency:	868.3 MHz
Receiver category:	SRD category 2
Typ. open area RF range:	> 100 m
Duty cycle:	< 1% per h
Display:	LCD

**Subject to technical changes.**

**Max. number of devices to be taught-in:**

**MAX! House solution**

- max. 50 devices in max. 10 rooms,
- max. 4 MAX! Eco Switch
- per room max. 8 MAX! Radiator Thermostats<sup>(+)</sup>, 8 MAX! Window Sensors and 1 MAX! Wall Thermostat<sup>+</sup>

**MAX! Room solution:**

- max. 1 MAX! Wall Thermostat<sup>+</sup>
- max. 8 MAX! Radiator Thermostats<sup>(+)</sup>
- max. 8 MAX! Window Sensors



**Do not dispose of the device with regular domestic waste.**

Electronic equipment must be disposed of at local collection points for waste electronic equipment in compliance with the Waste Electrical and Electronic Equipment Directive.



The CE sign is a free trading sign addressed exclusively to the authorities and does not include any warranty of any properties.



For technical support, please contact your specialist dealer.





Bevollmächtigter des Herstellers:  
Manufacturer's authorised representative:



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