EQ3BTRV BLUETOOTH® Smart Radiator Thermostat



Information about this manual Please read this manual completely and carefully before starting to use the device. The manual contains important information about the intended use of the device. Especially observe the safety notes. Keep the manual for later consultation. If you

hand over the device to other persons for use, please hand over this manual as well. Attention! This indicates a hazard.

Note. This section contains important additional information.

2. Package contents 1x radiator thermostat, 2x 1.5 V mignon/LR6/AA, 3x operating manual in German/English, French/Dutch and Polish/Italian

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Device overview

week program C

Holiday function (🗂), weekday, empty battery symbol (🗖) D

Mode/Menu button: Switch between auto

Union nut for fitting on the heating valve Defined switching time periods in the

- mode, manu mode and holiday function (press button shortly); configuration menu (press button for at least 3 seconds)
- Control wheel: Change settings, e.g. tem perature (turn the control wheel), activate the boost function and confirm/save set-tings in the menu (press control wheel tings in shortly)
- fort temperature Temperature display, time/date display, menu items, functions

© button: Switch between eco and com-

- **Function (APP)** The electric BLUETOOTH® Smart Radiator Thermostat offers individual control of the room temperature from a user-friendly and intuitive app.
 The app "calor BT" is available for free for iOS and Android smartphones. The radiator thermostat enables the regulation of single radiators or the room temperature.
- Thanks to pre-programmed or individually tailored heating and cooling phases, the desired temperature can be comfortably adjusted. The radiator thermostat fits to all common radiator valves and is easy to mount without having to drain any water or intervene in the heating system. With the boost

function, cool rooms can be heated within short by opening the heating valve fully. Thanks to the automatic "open window detection", additional energy can be saved during ventilation.

Intended use

Safety instructions

of a child.

external 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 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.

by an expert. 7. **Disposal instructions** 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

Inserting (replacing) batteries

lation strip.

place.

Equipment Directive.

To replace the batteries, please proceed as follows: the battery compartment cover on both sides with your fingers and remove the cover by pushing it downwards.

Insert 2 new LR6/mignon/AA (1.5 V) batteries in the battery

compartment, making sure they are the right way round. Reattach the battery compartment cover and latch it into

1 You can adjust the time and date in the menu under "dAt"

 Rotate the thermostat dial to the maximum value (anti-clockwise). The thermostat dial then no longer presses against the valve spindle, making it eas

Remove the mechanical thermostat head. If required, place the supplied support ring or adapt-

ier to remove.

11. Adaption run

in the meantime.

formed to adapt to the valve.

trol wheel when "InS" is displayed.

er first.

pressing the control wheel shortly (F).

In the initial state, the batteries are already inserted. Simply remove the insu-

Never recharge standard batteries. Doing so will present a risk of explosion. Do not throw the batteries into a fire. Do not short-circuit batteries. Set date and time After inserting batteries, the date and time is automatically requested after a brief display of the firmware version number and short motor run ("InS").

Set the year, month, day, hour and minute with the control wheel and confirm by

The service life of new alkaline batteries is approximately 2 years. A battery symbol () on the display indicates that the batteries need to be replaced. After removing the empty batteries, wait approx. 1 minute before inserting the new ones. Operation with rechargeable batteries is not possible.

• After the programming has been completed, "InS" is shown again in the display and installation can take place.

• Attach the radiator thermostat to the valve.

After inserting batteries and mounting on the valve an adapting run ("AdA") is per-

As soon as the radiator thermostat has been mounted to the valve, press the con-

13. Operation and configuration After the radiator thermostat has been mounted and set up, the device can be individually operated and configured. Operation and configuration can be performed either via BLUETOOTH* with the app "calor BT" or directly on the device.

13.1 Operation and configuration via app

13.2 Operation and configuration on the device

please proceed as described in the following sections.

of the week, all weekdays, the weekend, or the entire week.

Week program (Pro)

The bars for switching time periods of the week program are displayed for every second time interval.

and weekday are displayed in normal mode.

To control the device via app, please proceed as follows:

• Download the app "calor BT" from the iOS or Android store and install the app on your smartphone. Follow the instructions in the app. Afterwards, you can control and configure the radiator thermostat via the app.

Operation and configuration can be performed directly on the device. Therefore,

 Confirm by pressing the control wheel shortly.
 The next switching time point is displayed. You can adjust this individually. • Finally set the temperature which should prevail from the selected time. You can repeat this procedure until all the other desired temperatures for the time period from 0:00 to 23:59 have been stored. • If all 7 switching time points have been allocated, 23:59 is displayed as the final

In auto mode, the temperature can be changed at any time using the control wheel. The modified temperature will then remain the same until the next point at which the program changes.

- Select the menu item "AEr" with the control wheel and confirm by pressing the The temperature and time can be set with the control wheel. The function can be deactivated by selecting "0" for the time.
- Confirm by pressing the control wheel shortly. Activate/deactivate BLUETOOTH® (bLE) The BLUETOOTH® function of the radiator thermostat can be activated or deactivated manually. Press the Mode/Menu button for at least 3 seconds.
- or concealed (e.g. by a sofa). The open-window function is deactivated while the boost function is active. 13.2.9 Setting the holiday function If you want to maintain a fixed temperature for a certain period, e.g. during your holi days or a party, the holiday function can be used. Briefly press the Mode/Menu button repeatedly, until the suitcase symbol () appears in the display.
- 13.2.12 Set frost protection mode If a room is not to be heated, the valve can be closed. The valve is only opened if there is a risk of frost. The calcification protection continues to run. the display.

To end it, exit the manu mode (manu) or turn the selector dial to the left.

- 5 to 35 °C 90 °C (at the radiator) Surface temperature: LCD Display: Connection: M30 x 1.5 mm Method of operation: Type 1 Linear travel: 4.3 mm
- Battery symbol (_____) Valve drive sluggish F1 F2 Actuating range too wide F3 Adjustment range too small The radiator thermostat performs a routine descaling run once a week on Sat-The radiator thermostat performs a routine descaining rain once a most urday at 12:00 to protect against calcification of the valve. During this, "CAL" appears in the display.

15. Technical data Device short description:

The operation of the device can be locked.

- Radio frequency: Open area RF range: Subject to technical changes.
- Dimensions (W x H x D): 55 x 60 x 102 mm Weight:

Do not leave packaging material lying around. It can be dangerous in the hands 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 have the device checked The CE sign is a free trading sign addressed exclusively to the authorities and does not include any warranty of any properties. Used batteries should not be disposed of with regular domestic waste! Instead, take them to your local battery disposal point.

10. Installation on the radiator The radiator thermostat is easy to install and can be done without draining heating water or intervening in the heating system. No special tools are required, nor does the heating have to be switched off. The union nut attached to the radiator thermostat can be used universally and without accessories for valves of the most popular manufacturers with a thread size of M30 x 1.5 mm.

- If the adapting run has been initiated prior to mounting, please press the control wheel shortly and the motor reserves to the "InS" position. If an error message (F1, F2, F3) is displayed, the motor similarly travels back to the "InS" position
- In the week program, for each weekday up to 3 heating phases (7 change settings) can be set separately. The programming is carried out for the selected days, whereby temperature settings have to be set for the entire period between 00:00 and 23:59h. Press the Mode/Menu button for at least 3 seconds. The display will show "Pro". Confirm by pressing the control wheel shortly. "dAy" appears on the display. You can use the control wheel to select a single day

The first switching time point is displayed (00:00). This cannot be changed. The

13.2.3 Switching between summer and winter time (dSt)

Select the menu item "dSt" with the control wheel.

Confirm by pressing the control wheel shortly.

13.2.4 Open-window function (AEr)

control wheel shortly.

control wheel shortly.
"COnF" then appears in the display. • Confirm by pressing the control wheel shortly.

mostat will switch back to auto mode.

13.2.10 Comfort and reduction temperature

13.2.11 Activate heating pause (battery saving)

To activate the heating pause, proceed as follows:

wheel again.

0

display.

the display.

at the same time.

trol wheel shortly.

- With a rapidly reducing temperature, the radiator thermostat automatically detects that a room is being ventilated. In order to save heating costs, the temperature is then reduced for a certain period of time (15 minutes, set at the factory). Whilst this function is active, the "window open" symbol () appears on the display.

 Press the Mode/Menu button for at least 3 security.
- control wheel shortly. The display will show "OFF" to deactivate the function or "On" to activate the function. Confirm by pressing the control wheel shortly. 13.2.7 Restore factory settings (rES) The factory settings of the radiator thermostat can be restored manually. If you do this, you will lose all your settings.

 • Press the Mode/Menu button for at least 3 seconds.

 • Select the menu item "rES" with the control wheel and confirm by pressing the

• Select the menu item "bLE" with the control wheel and confirm by pressing the

- Change the time until which the temperature shall remain with the control wheel and confirm by pressing the control wheel shortly.
 Then set the date and confirm by pressing the control wheel shortly.
 Set the temperature and confirm by pressing the control wheel shortly. The set temperature will remain until the set end time. Afterwards, the radiator ther-
- Turn the control wheel in manu mode (manu) to the left until "OFF" appears in To end it, exit the manu mode (manu) or turn the control wheel to the right. 13.2.13 Child safeguard/operating lock

• To activate/deactivate the operating lock, press the Mode/Menu and the 🗯 button

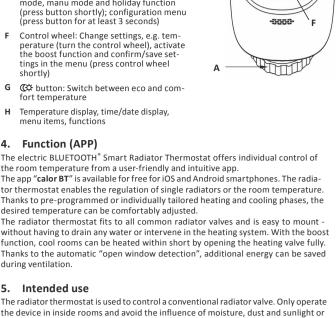
Please check mounting of the radiator thermostat

Check the heating valve

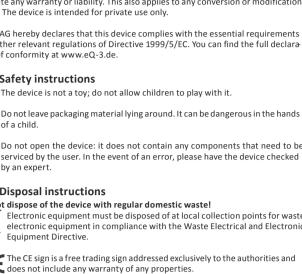
2x 1.5 V LR6/mignon/AA Supply voltage: 100 mA max. Current consumption: Battery life: 2 years (typ.) IP20 Degree of protection: Degree of pollution: Ambient temperature:

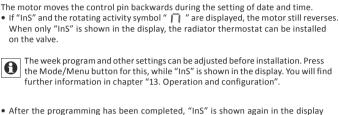
CC-RT-BLE

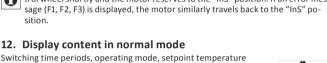
162 g (incl. batteries) 2.402 GHz - 2.480 GHz 10 m (typ.) The BLUETOOTH $^{\circ}$ word mark and logos are registered trademarks owned by Bluetooth SIG, Inc and any use of such marks by eQ-3 AG is under license. Other trademarks and trade names ar those of their respective owners. **IOS APP** ANDROID APP



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"AdA" and the activity symbol () are displayed. No operations can be performed in the mounting.

heating times are displayed as bars Confirm by pressing the control wheel shortly. Set the temperature which is desired from 0:00.

switching point to be confirmed.

13.2.2 Setting date and time (dAt)

Confirm by pressing the control wheel shortly.

Date and time can be adjusted via the menu at any time. Press the Mode/Menu button for at least 3 seconds.
Select the menu item "dAT" with the control wheel. Set the year, month, day, hour and minute with the control wheel and confirm by pressing the control wheel shortly.

An automatic switching between summer and winter time can be activated and deactivated. The automatic switching is activated in the factory settings.

• Press the Mode/Menu button for at least 3 seconds.

Confirm by pressing the control wheel shortly.
 The display will show "OFF" to deactivate the function or "On" to activate the function.

13.2.5 Setting offset temperature (tOF) As the temperature is measured on the radiator, the temperature distribution can vary throughout a room. To adjust this, a temperature offset of up to $\pm 3.5\,^{\circ}\text{C}$ can be set. If a nominal temperature of e.g. 20 $^{\circ}\text{C}$ is set but the room presents with only 18 $^{\circ}\text{C}$, an offset of -2.0 $^{\circ}\text{C}$ needs to be set. Press the Mode/Menu button for at least 3 seconds.
Select the menu item "tOF" with the control wheel and confirm by pressing the

 $\bullet \ \ Turn the control wheel for as long as necessary until the desired temperature appears.$

13.2.8 Boost function If, for example, you arrive home earlier than usual, the boost function will help you to heat the room up quickly. When activating the boost function, the heating valve is immediately opened to 80 % for 5 minutes. The heating of a room takes longer than 5 minutes, but the heat given off by the radiator can be felt immediately.

• Press the control wheel shortly to activate the boost button.

The remaining time for the function will be counted down in seconds ("b300" to "b000"). After these 5 minutes have elapsed, the actuator changes to the mode which was previously active (auto/manu) with the previously set temperature. • The function can be deactivated prematurely at any time by pressing the control

The boost function will not have an immediate effect if the radiator is covered

the display. Change the temperature with the control wheel and confirm by pressing the con-Even in auto mode, the temperature can be changed at any time using the button. It will then remain the same until the next point at which the program changes.

Battery life can be prolonged by switching the heating off in summer. To achieve this,

In order to save on battery life, you can also deactivate the BLUETOOTH* function (see sec. "13.2.6 Activate/deactivate Bluetooth* (bLE)").

• Turn the control wheel in manu mode (manu) to the right until "On" appears in

the valve is opened fully. The calcification protection continues to run.

• Change the temperature with the control wheel and confirm by pressing the con-

ullet The moon symbol ($oldsymbol{\mathbb{C}}$) and the currently stored reduction temperature appear in

 Press and hold the comfort/reduction temperature button (♥♥) for at least 3 seconds. The sun symbol (☆) and the currently stored comfort temperature appear in the

14. Troubleshooting and maintenance Error code on the display Problem Solution Battery output too low Replace batteries Check installation, check the heating valve

After it has been successfully activated, "LOC" appears in the display. • To deactivate the operating lock, press both buttons again.

