



Bosch Smart Home

Radiator Thermostat Instruction Manual



BOSCH

Start making your home smart!

Please be sure to install the Bosch Smart Home Controller first.



Please ensure that you have a Bosch Smart Home Controller as well as the Bosch Smart Home App, and that you have set both of them up successfully.



You can also watch easy to follow installation videos on our website: **www.bosch-smarthome.com/installation**

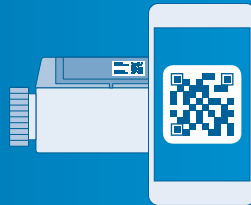
Set up your product in just three steps



► **Start the Bosch Smart Home App**



► **Select “Add device”**



► **Scan the QR code in the battery compartment or on the enclosed label**



Dear customer,

Congratulations on purchasing your Bosch Smart Home Radiator Thermostat. It will help you to make your home even more energy-efficient and smart because you will be able to set the required room temperature when you are away from home using the Bosch Smart Home App. You will also be able to set the required heating level for individual rooms automatically using a time program. In conjunction with a Bosch Smart Home Door/Window Contact you will be able to have the room temperature lowered automatically when windows or doors are opened. This prevents unnecessary energy consumption.

**We hope you enjoy your new product,
The Bosch Smart Home Team**

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1.0 PRODUCT DESCRIPTION

The radiator thermostat enables you to easily set the desired temperature of a room to within half a degree by controlling it with an app.

Thanks to the thermostat's built-in sensors, you can therefore quickly set every room to a temperature you feel comfortable at and keep it there. A time-controlled temperature program can also be set for each room.

The radiator thermostat detects falling temperatures, for example when windows are open, and adjusts the heating temperature to save energy.

A frost protection program is started automatically at temperatures below 4 °C. In addition to this, the radiator thermostat regularly opens the valve to protect against calcification.

1.1 Intended use

The product is intended only for installation on radiators (including convectors and baseboard heaters) in indoor areas. In order to function properly, the product must be used together with the Bosch Smart Home Controller.

- ▶ Follow the safety instructions and the directions in this manual and the Bosch Smart Home App to ensure that the product is set up correctly
- ▶ Please note the details in the Technical Data section (see p. 42)
- ▶ Avoid installing in areas prone to high amounts of dust or direct sunshine



Do not modify the product in any way. Any other use is considered unintended use. We will not assume liability for any resulting damage.

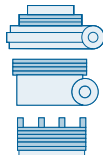
2.0 IN THE BOX



Radiator
thermostat



2 AA batteries



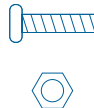
Adapter, suitable
for all standard
radiators



Stabilizing
ring



Valve pin
extension



Screw with
nut



QR code label



To operate the radiator thermostat you will require the app, a controller and an internet connection.

3.0 WARNING NOTICES

3.1 Explanation of symbols



Warning.

This alerts you to danger.



Info.

Indicates important information.

3.2 Safety instructions



Proper handling of batteries

- ▶ Take the batteries out of the device if it is not used for a prolonged period of time.
- ▶ The enclosed batteries are not suitable for re-charging.



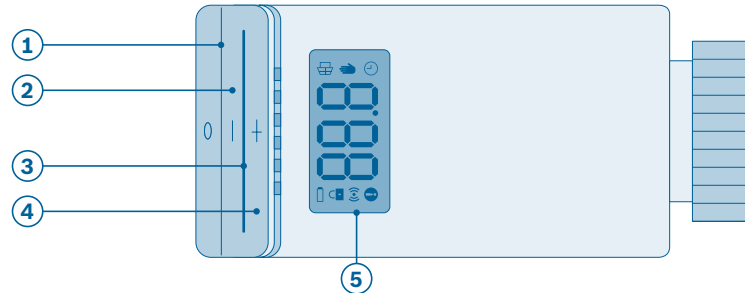
Material damage due to a faulty heating system!

Mounting the product on faulty heating systems can lead to material damage being caused to the product itself (e.g. due to leakage of heating water).

- ▶ Have damage to the valves or heating system repaired by a specialist.

4.0 THE RADIATOR THERMOSTAT

4.1 Product overview



Item	Part	Explanation
1	Mode button "o"	For setting the operating mode
2	Minus button "-"	For reducing the target temperature
3	LED	Indicator for status and errors
4	Plus button "+"	For increasing the target temperature
5	Display	Indication of settings, values, processes, faults and status



Item	Symbol	Name	Display indication	Status
1		Battery status	-	Battery weak
2		Child-proof lock	-	Device locked
3		Radio status	-	Radio connection to controller is active
4		Fault indication	-	Radiator thermostat does not have contact with controller
5		Airing detection		Window open, valve closed
6	-	Value indication	-	Indication of target temperature and info values
7		Manual operating mode	Target temperature	Manual operating mode is active
8		Automatic operating mode	Target temperature	Automatic operating mode is active

5.0 SET-UP



Before you start

Please ensure that you have a Bosch Smart Home Controller and the Bosch Smart Home App, and that you have set both of them up successfully.



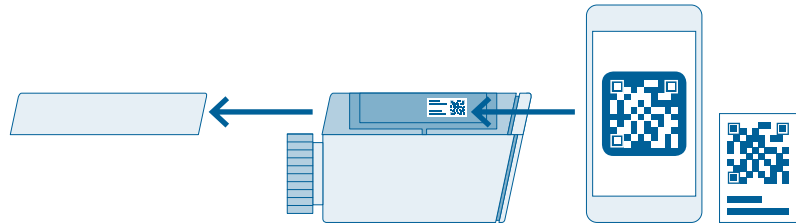
You can also watch easy to follow installation videos on our website:
www.bosch-smarthome.com/installation

5.1 Installation

Start the Bosch Smart Home App and select “Add device”.



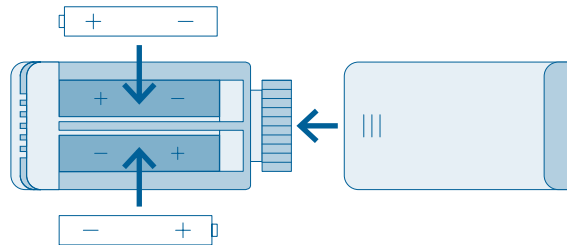
From this point, the app guides you through the installation process. You will find a brief description in the following pages of this instruction manual.



The app will prompt you to scan the QR code on the product. To do so, the battery lid has to be removed. You will

find the QR code on the inside of the battery compartment and as a label in the box.

5.2 Inserting the batteries



Insert the batteries into the battery compartment. Pay attention to the correct polarity when doing so. Then close the battery compartment again.

5.3 Configuring the device



Inserting the batteries activates the radiator thermostat. It will automatically try to connect to your Bosch Smart Home Controller.



Now, the app guides you through the installation process. You will find a brief description in the following pages of this instruction manual.

The radiator thermostat's LED indicates the status of the configuration attempt using the following flash codes:

LED state	Explanation
Flashes orange	Searching for system controller
Flashes green once	Successful configuration attempt
Flashes orange	Unsuccessful configuration attempt



If the device is not able to establish a connection to the controller within 3 minutes, the configuration mode is ended. To start the configuration mode again, please press the mode button “o” on the radiator thermostat.

The app will also inform you if the configuration was successful, and the target temperature will be shown on the display of the radiator thermostat.

6.0 FIXING

6.1 Fixing instructions



You will require one of the enclosed adapters for some models of radiator. You will find a detailed list, specifying which adapter is used on which radiator type, in the free adapter overview at: **www.bosch-smarthome.com/products**



Now, the app guides you through the installation process. You will find a brief description in the following pages of this instruction manual.

6.2 Removing the old thermostat

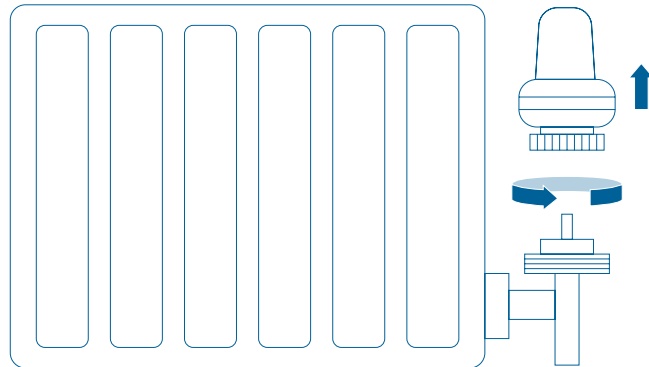
Remove the old thermostat from the required radiator.

To do so, set the thermostat to the highest setting and detach it from the radiator. You may possibly need a pipe wrench or a screwdriver to do this.



Don't worry about the heating water

No water can leak out when replacing the thermostat. Please nevertheless be careful, especially with regard to the handling of tools.



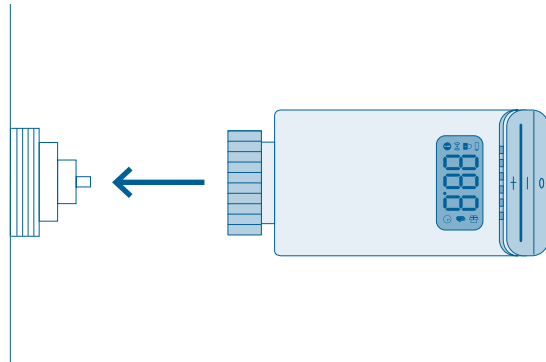
6.3 Installation without adapter

Suitable for the following radiator valves: Pegler, Drayton, Danfoss, Myson, Siemens, Honeywell plus many more.

Put the radiator thermostat on the radiator valve and screw the thermostat tight by hand.



Please do not use a pipe wrench
In order to avoid damaging your radiator thermostat, please tighten it only by hand.



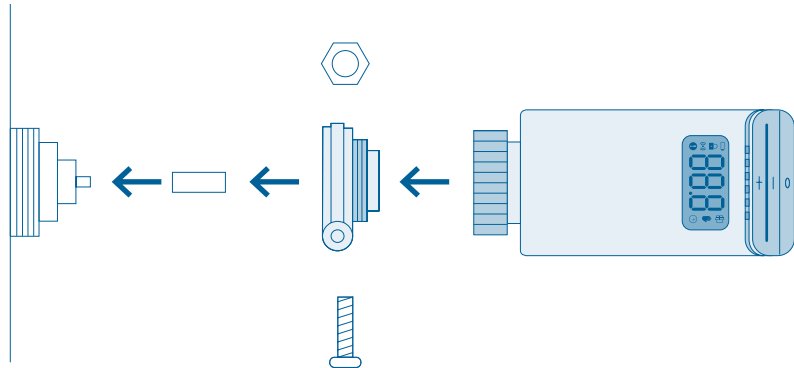
6.4 Installation with adapter for Danfoss RAV

Put the valve pin extension on the valve. Then attach the matching adapter firmly to the radiator valve and tighten it using the enclosed screw and nut.

Now put the radiator thermostat on the radiator valve and screw the thermostat tight by hand.



Please do not use a pipe wrench
In order to avoid damaging your radiator thermostat, please tighten it only by hand.



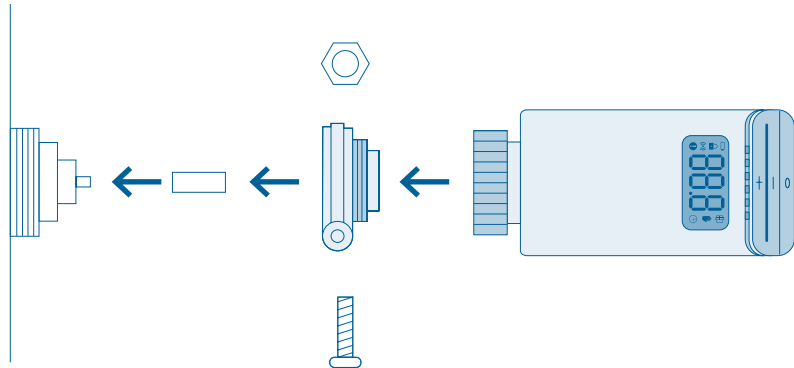
6.5 Installation with adapter for Danfoss RA

Attach the matching adapter firmly to the radiator valve and tighten it using the enclosed screw and nut. Now put

the radiator thermostat on the radiator valve and screw the thermostat tight by hand.



Please do not use a pipe wrench
In order to avoid damaging your radiator thermostat, please tighten it only by hand.



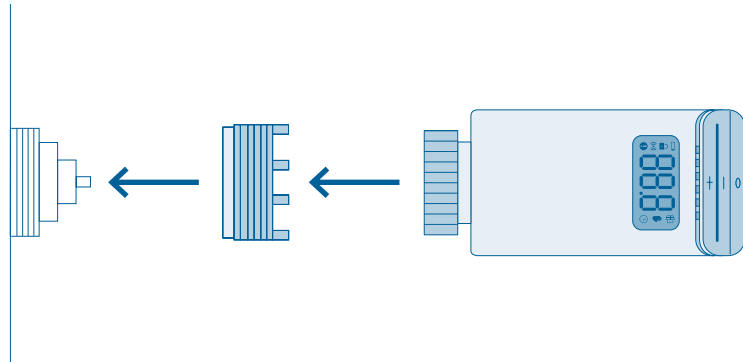
6.6 Installation with adapter for Danfoss RAVL

Attach the matching adapter firmly to the radiator valve. Now put the radiator thermostat on the radiator

valve and screw the thermostat tight by hand.



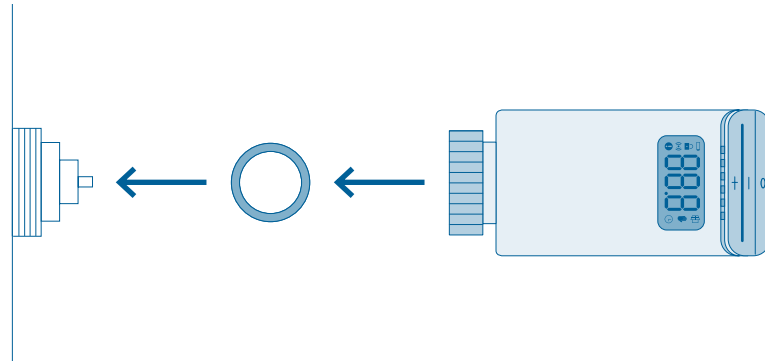
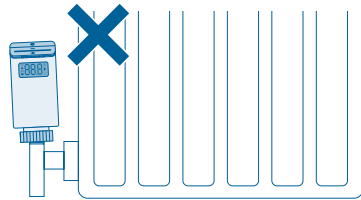
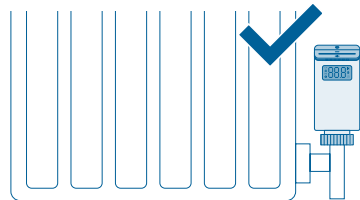
Please do not use a pipe wrench
In order to avoid damaging your radiator thermostat, please tighten it only by hand.



6.7 Loose thermostat

If the thermostat is too loose-fitting, insert the stabilizing ring into the radiator thermostat's mount. Then put

the radiator thermostat on the radiator valve and screw the thermostat tight by hand.



6.8 Calibration

The radiator thermostat has to be calibrated once it has been mounted. Please confirm the process in the app.

Now you will hear the servo motor humming, which means that the radiator thermostat is calibrating.



Now, the app guides you through the installation process. You will find a brief description in the following pages of this instruction manual.

7.0 PRODUCT DETAILS

7.1 Technical data

Model	Thermostat AA
Batteries	2× LR6/AA
Battery life	≥2 years≥
Max. current consumption	120 mA
Receiver category	SRD category 2
Radio frequency	868.3 MHz / 869.525 MHz
Max. transmission power	10 mW
Radio range in free-field conditions	≤ 100 m

Duty cycle	At 868.3 MHz < 1 % per h At 869.525 MHz < 10 % per h
Valve connection	M30 × 1.5 mm
Protection class	IP20
Method of operation	Type 1
Degree of pollution	2
Ambient temperature	0 °C to 50 °C
Humidity	5 % to 80 %
Dimensions (W × H × D)	48 mm × 57 mm × 103 mm
Weight (without batteries)	140 g

7.2 Declaration of conformity

Robert Bosch Smart Home GmbH hereby declares that the Bosch Smart Home Radiator Thermostat radio communication unit complies with Directive 1999/5/EC and is designed for use in all countries of the European Union.

The declaration of conformity and declaration of performance can be downloaded from **www.bosch-smarthome.com**



7.3 Faults in radio operation

Faults in radio operation (e.g. due to electric motors or defective electrical devices) cannot be ruled out. The radio range inside buildings may differ greatly from the radio range in free-field conditions. Apart from the

transmission power and the receiver characteristics, environmental influences such as humidity and structural characteristics may also influence radio operation.

7.4 Open-Source-Software

This Bosch Smart Home product uses open-source software. You will find the license information for the components used on the opposite side.

core_cm3.h

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7.5 Environmental protection and disposal

Electrical and electronic equipment that is no longer usable and defective or used batteries must be separated from other waste and recycled in an environmentally friendly manner (European Directive on waste electrical and electronic equipment).

To dispose of electrical and electronic equipment or batteries, use your country-specific return and collection systems.



8.0 FURTHER INFORMATION

You can find more detailed information on operating and maintaining the radiator thermostat in the online FAQs at **www.bosch-smarthome.com/faq**

You will also find all contact details on the rear side of this document.



Sale and transfer

Before you transfer or sell your device, delete your personal information. To do this, reset the device to its factory settings (see online FAQs).



#BeSmarter

INTERCONNECTED SMART HOME PRODUCTS

Save on heating costs, protect your valuables, create mood lighting and much more: Bosch Smart Home offers a complete, intelligent system to make your life more comfortable, safer and more sustainable.

More at www.bosch-smarthome.com



Door/Window Contact



Smoke Detector



Plug



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Mon–Fri 7:00 am–8:00 pm
Sat 8:00 am–6:00 pm

 service@bosch-smarthome.com

09/2016 8-750-000-023



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EN Important information for your Bosch Smart Home!

Robert Bosch Smart Home GmbH declares that this Bosch Smart Home wireless radio equipment is in compliance with the Directive 1999/5/EC (until 12th of June 2017) and Directive 2014/53/EU (from 13th of June 2017). The full text of the EU declaration of conformity is available at the following internet address:

www.bosch-smarthome.com/uk/en/EU-declarations-of-conformity

DE Wichtige Zusatzinformationen zu Ihrer Bedienungsanleitung!

Hiermit erklärt die Robert Bosch Smart Home GmbH, dass dieser Bosch Smart Home Funkanlagentyp der Richtlinie 1999/5/EG (bis 12. Juni 2017) und der Richtlinie 2014/53/EU (ab 13. Juni 2017) entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:

www.bosch-smarthome.com/de/de/CE-Konformitaetserklaerungen

FR Informations complémentaires importantes pour vos notices d'utilisation!

Par la présente Robert Bosch Smart Home GmbH, déclare que cet équipement radioélectrique Bosch Smart Home est conforme à la directive 1999/5/CE (jusqu'au 12 juin 2017) et à la Directive 2014/53/UE (à partir du 13 juin 2017). Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante :

www.bosch-smarthome.com/fr/fr/UE-declarations-de-conformite



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