



Operation Manual

Control unit **CR 11 (H)**

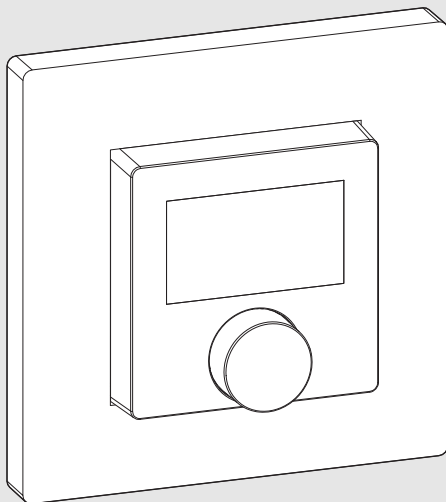


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1 Explanation of symbols and safety instructions

1.1 Explanation of symbols

Warnings

In warnings, signal words at the beginning of a warning are used to indicate the type and seriousness of the ensuing risk if measures for minimizing danger are not taken.

The following signal words are defined and can be used in this document:

 **DANGER**

DANGER indicates that severe or life-threatening personal injury will occur.

 **WARNING**

WARNING indicates that severe to life-threatening personal injury may occur.

 **CAUTION**

CAUTION indicates that minor to medium personal injury may occur.

NOTICE

NOTICE indicates that material damage may occur.

Important information



The info symbol indicates important information where there is no risk to people or property.

1.2 General safety instructions

 Notices for the target group

These operating instructions are intended for the operator of the product.

All instructions must be observed. Non-observance can result in serious personal injury with potentially fatal consequences as well as damage to property and the environment.

- Read and retain the operating instructions (heating controller, etc.) prior to operation.
- Observe the safety instructions and warnings.

- ▶ Carry out cleaning and maintenance at least once a year at the specified intervals. Also check when you do so that the entire system is in proper working order.
- ▶ Immediately remedy any defects identified.

Intended use

- ▶ Use the product only to control heating systems.

Any other use is considered inappropriate. We take no responsibility for damage caused through incorrect use.

Damage caused by frost

The system can freeze if it is switched off:

- ▶ Observe the notices regarding frost protection.
- ▶ Due to the additional functions, e.g. DHW heating or pump anti-seizure protection, the system should always be left on.
- ▶ Have faults rectified immediately.

2 Product information

2.1 Product description

The CR 11 (H) is a user interface for control and remote control of heating and ventilation units.

2.1.1 CR 11 (H) as controller

In conjunction with heat sources with UI 301 – UI 700 and heating circuit without mixer, CR 11 (H) can be used as a room temperature-dependent controller.

The desired room temperature can be set on the CR 11 (H). CR 11 (H) sends the room temperature to the UI as a control variable.

2.1.2 CR 11 (H) as remote control

In conjunction with heat sources with UI 800 or heat sources with a controller, C... CR 11 (H) can be used as a remote control for a heating circuit.

The desired room temperature can be set on the CR 11 (H). CR 11 (H) sends the room temperature, the room temperature change and the dew point (only with CR 11 H) to the UI/controller as a control variable.

2.1.3 CR 11 (H) as user interface

Ventilation units

In conjunction with ventilation units, CR 11 (H) can be used as a user interface for the ventilation unit. Up to 4 CR 11 (H) units can be used in the system.

The ventilation level can be set on the CR 11 (H). CR 11 H sends the relative humidity to the control unit as a control variable.

Hot air heating

In conjunction with hot air heating, CR 11 (H) can be used as a user interface for single-room control. Up to 16 CR 11 (H) units can be used in the system.

The desired room temperature can be set on the CR 11 (H) and an electric reheater can be enabled/blocked. CR 11 (H) sends the room temperature measured to the control unit as a control variable.

2.2 Overview of control elements and symbols

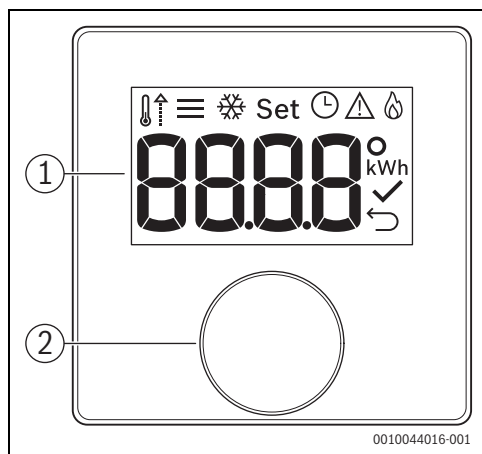


Fig. 1 Controls

	Element	Function
[1]	Display	Display of temperature, ventilation level, service menu
[2]	Selector	▶ Turn to change a setting value (e.g. temperature) or to select between menus or menu items. ▶ Press to open a menu or menu item, to confirm a setting value (e.g. temperature) or a message.

Table 1 Explanation of the control elements

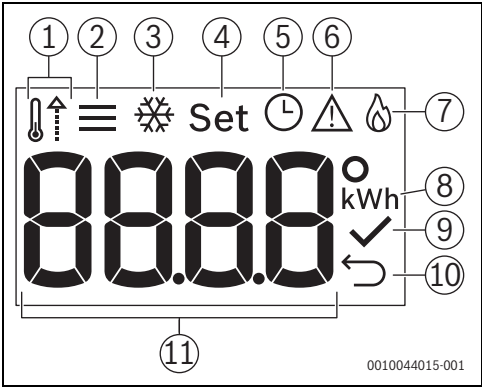


Fig. 2 Symbols in the display

	Symbol for	Comment
[1]	Electrical reheater / compressor	For warm-air heating: the electric reheater is in operation. For heat pumps: the compressor is in operation.
[2]	Service menu	The display shows settings from the service menu.
[3]	Cooling mode	Only for heat pumps with cooling function; indicates that the prerequisites for cooling mode are fulfilled → Chapter 5 on page 5
[4]	Adjustment	Flashing: value can be changed Lights up continuously: value has been changed
[5]	Time program	When used as a remote control: the system operates according to a set time program.
[6]	Fault	→ Chapter 7 on page 6
[7]	Burner in operation	only for wall mounted gas condensing boilers
[8]	Unit kWh	for energy consumption display
[9]	Confirmation	Indicates a successful action.
[10]	Exit menu	You exit the current menu by pressing in the selector.
[11]	Temperature display	in standard display: currently measured room temperature

Table 2 Explanation of symbols

3 Set the set room temperature

If the CR 11 (H) control unit is assigned to a heat source, the set room temperature can be set on the CR 11 (H):

- ▶ Turn the selector until the desired set room temperature is shown in the display.
The display changes to the standard display after 5 seconds and shows the measured room temperature.

4 Setting the ventilation level

If the CR 11 (H) control unit is assigned to a ventilation unit, the ventilation level can be set on the CR 11 (H):

- ▶ Turn the selector until the desired setting is shown in the display.
 - : switch off
 - : ventilation level 1 to ventilation level 4
 - : automatic mode as required
 - : automatic mode as per time program (only in combination with a control unit with time program)
 - : sleep timer (operation with ventilation level 1 for 2 hours)
 - : sleep timer (operation with ventilation level 4 for 15 minutes)
 - : exhaust air only (time-limited)
 - : party ventilation (operation with ventilation level 4 for 8 hours)
 - : fireplace function (operation with supply air connection for 10 minutes)
 - : filter change (confirm filter change by pressing)The display changes to the standard display after 5 seconds and shows the current ventilation level.



If  appears on the display:

- ▶ Change filter and confirm filter change by pressing the selector.

5 Cooling mode



Some heating circuits on heat pumps can also be used for cooling. Ask your professional installer.

The following conditions must be fulfilled for cooling mode:

- The heat source must be suitable for cooling.
- The cooling function is activated in the control device.
- CR 11 (H) is assigned to the cooling circuit.
- The outdoor temperature exceeds a set value for a certain time.

If these prerequisites are given, the symbol  in the display of the CR 11 (H) indicates the possible cooling mode.



Fig. 3

If the CR 11 (H) control unit is assigned to a cooling circuit, the set cooling temperature can be set on the CR 11 (H):

- Turn the selector until the desired set cooling temperature is shown in the display.
The display changes to the standard display after 5 seconds and shows the measured room temperature.

Cooling mode is ended automatically as soon as the prerequisites are no longer fulfilled.

6 Enable electric booster heater

Prerequisite:

- CR 11 (H) is assigned to a hot air generator as an individual controller in a room with an electric reheater.

Under this prerequisite, the electric reheater can be enabled via CR 11 (H):

- In the standard display: press the selector briefly and turn it until **ON** appears in the display.
- Briefly press the selector.
The electric reheater is enabled.



In the standard display, the symbol  is only shown when the reheater is in operation.

To cancel the enable:

- In the standard display: press the selector briefly and turn it until **OFF** appears in the display.
- Briefly press the selector.
The electric reheater is blocked.

7 **Fault displays**

In the event of faults in the system, a fault is shown in the display of the CR 11 (H) and on the user interface of the heat source.



Other fault displays depend on the heat source in the system.

- For the meaning of the fault displays, refer to the installation instructions of the heat source.

Fault	Description	Elimination
	Operating pressure too low.	► Topping up the heating water (→ installation instructions of the heat source).
	Filter is dirty.	► Change the filter. ► Press to the selector reset the filter running time in the menu item F IL.

Table 3

8 **Cancelling the key block time limited**

In the case of individual room control, CR 11 (H) can be blocked by higher-level control elements. Operation is then not possible.

To cancel the block time limited:

- Press the selector for at least 3 seconds.
A countdown appears, keep the button pressed.
The CR 11 (H) is unlocked.
The set room temperature can be changed via the selector.
After 20 seconds without interaction, CR 11 (H) is blocked again.

9 **Standby mode / switch off**

The CR 11 (H) is supplied with current via the BUS. Except for maintenance work, the system and therefore the CR 11 (H) always remain switched on.



All the settings are retained permanently after a power failure.

10 Environmental protection and disposal

Environmental protection is a fundamental corporate strategy of the Bosch Group.

The quality of our products, their economy and environmental safety are all of equal importance to us and all environmental protection legislation and regulations are strictly observed.

We use the best possible technology and materials for protecting the environment taking account of economic considerations.

Packaging

Where packaging is concerned, we participate in country-specific recycling processes that ensure optimum recycling. All of our packaging materials are environmentally compatible and can be recycled.

Used appliances

Used appliances contain valuable materials that can be recycled.

The various assemblies can be easily dismantled. Synthetic materials are marked accordingly. Assemblies can therefore be sorted by composition and passed on for recycling or disposal.

Old electrical and electronic appliances



This symbol means that the product must not be disposed of with other waste, and instead must be taken to the waste collection points for treatment, collection, recycling and disposal.

The symbol is valid in countries where waste electrical and electronic equipment regulations apply, e.g. "(UK) Waste Electrical and Electronic Equipment Regulations 2013 (as amended)". These regulations define the framework for the return and recycling of old electronic appliances that apply in each country.

As electronic devices may contain hazardous substances, it needs to be recycled responsibly in order to minimize any potential harm to the environment and human health. Furthermore, recycling of electronic scrap helps preserve natural resources.

For additional information on the environmentally compatible disposal of old electrical and electronic appliances, please contact the relevant local authorities, your household waste disposal service or the retailer where you purchased the product.

You can find more information here:
www.weee.bosch-thermotechnologies.com/

11 Declaration of Conformity

The design and operating characteristics of this product comply with the British, European and supplementary national requirements.



The UKCA and CE markings declare that the product complies with all the applicable British and European legislation, which is stipulated by attaching these markings.

You can request the complete text of the Declaration of Conformity from the UK address indicated in this document.

12 Regulations

In order to ensure installation and operation of the product in accordance with the regulations, please observe all the applicable national and regional regulations as well as all technical rules and guidelines.

You can find a list of the most relevant British and European directives and regulations in the table below.

EU legislation	UK legislation
Electromagnetic Compatibility - Directive 2014/30/EU	Electromagnetic Compatibility Regulations 2016
Low Voltage Directive 2014/35	Electrical Equipment (Safety) Regulations 2016
Radio Equipment - Directive 2014/53/EU	Radio Equipment Regulations 2017
Pressure Equipment - Directive 2014/68/EU	Pressure Equipment (Safety) Regulations 2016
Gas Appliances - Regulation (EU) 2016/426	Regulation 2016/426 on gas appliances as brought into UK law and amended
Machinery Directive 2006/42/EC	Supply of Machinery (Safety) Regulations 2008
Ecodesign Directive 2009/125/EC	The Ecodesign for Energy-Related Products Regulations 2010
Energy Labelling Regulation (EU) 2017/1369	Energy Labelling Regulation (EU) 2017/1369 (as retained in UK law and amended)
Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) - Directive 2002/95/EC	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
European Directive 2012/19/EC on old electronic and electrical appliances	(UK) Waste Electrical and Electronic Equipment Regulations 2013 (as ammended)

Table 4

13 Data Protection Notice



We, **Bosch Thermotechnology Ltd., Cotswold Way, Warndon, Worcester WR4 9SW, United Kingdom** process product and installation information, technical and connection data, communication data, product registration and client history data to provide product functionality (art. 6 (1) sentence 1 (b) GDPR / UK GDPR), to fulfil our duty of product surveillance and for product safety and security reasons (art. 6 (1) sentence 1 (f) GDPR / UK GDPR), to safeguard our rights in connection with warranty and product registration questions (art. 6 (1) sentence 1 (f) GDPR / UK GDPR) and to analyze the distribution of our products and to provide individualized information and offers related to the product (art. 6 (1) sentence 1 (f) GDPR / UK GDPR). To provide services such as sales and marketing services, contract management, payment handling, programming, data hosting and hotline services we can commission and transfer data to external service providers and/or Bosch affiliated enterprises. In some cases, but only if appropriate data protection is ensured, personal data might be transferred to recipients located outside of the European Economic Area and the United Kingdom. Further information are provided on request. You can contact our Data Protection Officer under: Data Protection Officer, Information Security and Privacy (C/ISP), Robert Bosch GmbH, Postfach 30 02 20, 70442 Stuttgart, GERMANY. You have the right to object, on grounds relating to your particular situation or where personal data are processed for direct marketing purposes, at any time to processing of your personal data which is based on art. 6 (1) sentence 1 (f) GDPR / UK GDPR. To exercise your rights, please contact us via **privacy.ttgb@bosch.com** To find further information, please follow the QR-Code.







Bosch Thermotechnik GmbH
Junkersstrasse 20-24
73249 Wernau, Germany

www.bosch-thermotechnology.com

GB Importer
Bosch Thermotechnology Ltd.
Cotswold Way, Warndon
Worcester WR4 9SW / UK