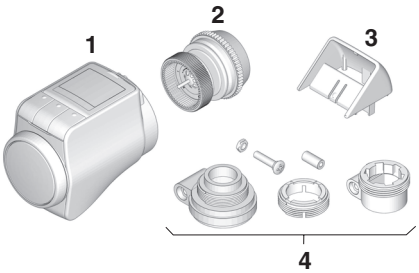
homexpert™
by Honeywell

Rondostat COMFORT+ HR30

Electronic
Radiator controller

1. Scope of delivery

The radiator controller packaging contains:



1 Radiator controller, **without batteries**
2 Valve baseplate M30 x 1.5
3 Display element
4 Bag with adapters (Danfoss RA, RAV, RAVL)

WARNING	**Danger of suffocation!** ► Keep packaging materials away from children.

2. Brief description

With the electronic radiator controller you can set your room temperature exactly to your requirements while additionally saving energy.

> **i** Lowering the room temperature by 1 °C saves approx. 6% energy!

User-friendly

- Large adjustable display with backlight.
- Convenient programming through removal of the radiator controller from the valve.

Installation

- The radiator controller fits on the most common radiator valves M30 x 1.5.
- After being mounted, the radiator controller operates immediately with the factory setting.

Functions for increased comfort

- Individual heating program for each weekday.
- Up to 6 switching points per day and three different temperatures.
- Operating modes Holiday, Party, Day off can easily be activated.
- Parameters can be set individually, see Section 9.

Energy-saving functions

- With the window function an open window is recognised and the radiator valve closed.
- In ECO mode the room temperature is decreased by 3 °C.
- Optimised heating or lowering of the room temperature.

CAUTION	**Danger of malfunctions!** ► Use the radiator controller only in accordance with these operating instructions. ► Do not allow children to play with the radiator controller.

3. Installation

Ready to operate in three steps:

- **Inserting batteries**
- **Setting the language, time and date**
- **Mounting – FINISHED**

Inserting/changing batteries

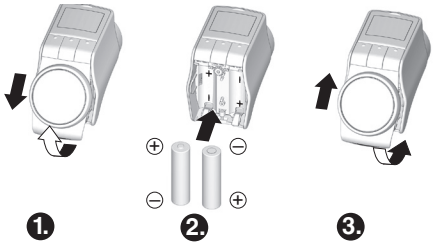
The radiator controller is set for the following battery type:

- 2 Alkaline mignon cells 1.5 V, type LR6, AA, AM3

You can alternatively use the following batteries/ accumulators:

- Lithium 1.5 V, type LR6, AA, AM3
- NiMH 1.5 V, type LR6, AA, AM3

i If lithium or NiMH batteries are used, Parameter 14 has to be set correctly, see Section 9.



1. Move the front part slightly upwards and remove it downwards.
   The battery compartment is now accessible.
2. Insert the batteries.
   Ensure that the polarity is correct.
3. Put the front part back on and push downward.
   The software version number, then the language DEUTSCH *(German) is displayed.*
4. If applicable, use the adjustment dial to select a different language.
5. Confirm the selected language with the **OK** button.
   HOUR is displayed.

i The language selection is only displayed during initial commissioning. During future battery changes setting of time and date is prompted directly.

i The battery life of new mignon cells amounts to approx. 2 years. The batteries need changing when the symbol ▭ flashes. All the settings are retained when the batteries are changed.

WARNING	**Explosion hazard!** ► Non-rechargeable batteries. ► Never short-circuit batteries or throw them into fire. ► Dispose of used batteries ecologically.

Setting the time and date

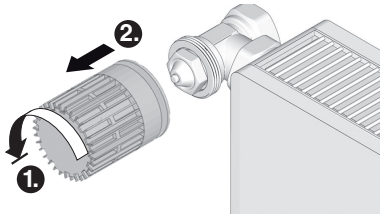
1. When *HOUR* is displayed, use the adjustment dial to set the current hour and confirm with **OK**.
   MINUTE is displayed.
2. Use the adjustment dial to set the current minute and confirm with **OK**.
   YEAR is displayed.
3. Use the adjustment dial to set the current year and confirm with **OK**.
   MONTH is displayed.
4. Use the adjustment dial to set the current month and confirm with **OK**.
   DAY is displayed.
5. Use the adjustment dial to set the current day and confirm with **OK**.
   The normal display with set temperature and selected operating mode is displayed.

Mounting the radiator controller

The radiator controller can be mounted easily on all common radiator valves with a connection M30 x 1.5 without causing dirt or water staining.

WARNING	**Damage to the radiator controller due to short-circuiting through humidity and moisture!** ► Mount the radiator controller in dry, closed rooms only. ► Protect the radiator controller against humidity, moisture, dust, direct sunlight or high heat irradiation.

Removing the old thermostat head

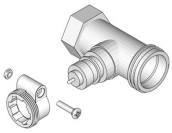
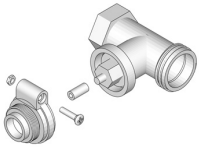
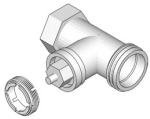


1. Turn the old thermostat head to the left until it stops and loosen the mounting.
2. Remove the old thermostat head from the radiator valve.

Selecting the adapter

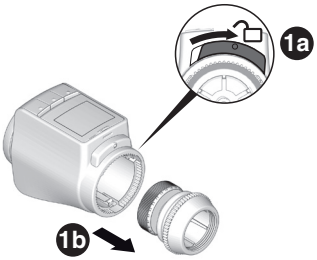
The radiator controller fits on the most common radiator valves M30 x 1.5. Adapters are required for some valve types.

1. Check whether an adapter is required and, if necessary, select the appropriate adapter.

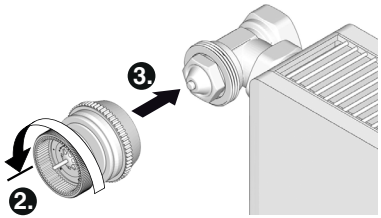
Make	Illustration	Adapter
Valves M30 x 1.5 Honeywell-Braukmann, MNG, Heimeier, Oventrop		Not required
Danfoss RA		Supplied
Danfoss RAV		Supplied
Danfoss RAVL		Supplied

2. Slide the adapter onto the radiator valve and turn it until you feel it click into place.
3. If necessary, screw the adapter tight with a screw.

Mounting the valve baseplate

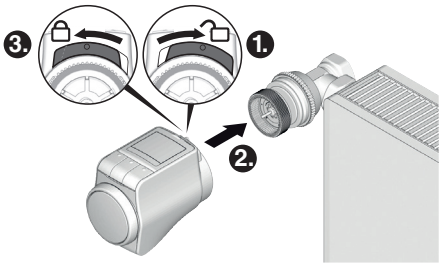


1. Separate the valve baseplate from the radiator controller. To do so, slide the slide towards the 🔓.



2. Turn the adjustment dial of the valve baseplate anti-clockwise until it stops.
3. Put the valve baseplate onto the radiator valve or the adapter and tighten by hand (without tools!).

Mounting the radiator controller



1. Ensure that the slide at the radiator controller is in the open position.
2. Push the radiator controller onto the valve baseplate so that the geer teeth catch and are no longer visible.
3. Lock the radiator controller in the end position. To do so, slide the slide towards the 🔒.

   The radiator controller carries out a self test and after 1 minute displays CYCL. Subsequently the radiator controller changes to automatic mode.

> **i** The radiator controller only functions if it is interlocked in the end position.

FINISHED! – Your radiator controller is now ready for operation with the factory setting!

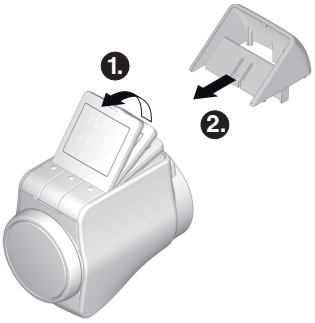
Securing controller and battery compartment

> **i** The radiator controller and battery compartment can be secured against being removed or opened by means of a screw. These screws are not included in the packaging.

Countersunk screws
Torx/corss recess 2.2x8mm
Type: WIN1412-KC22X8-Z or
WIN1412-KB22X8-Z

Setting the position of the display

In order to improve the legibility the display of the radiator controller can be tilted to different positions (10°, 20°, 30°, 40°).
The angle of 40° can be fixed with the supplied display element.



1. Lift the display and set it to the desired angle.
2. If desired to fix the angle at 40°, slide the support bracket between the display and the main body until it clips into place.

4. Device overview

Operating elements and display

1 Heating/Conserve period in hours
2 Current weekday 1 ... 7 (Monday ... Sunday)
3 Temperature display: e.g. current room temperature or measured temperature, if configured in Parameter 9
4 Text display with 9 characters
5 Button **OK**: Confirm settings
6 Button **PROG**: Select the operating modes, set the time program;
Button pressed long (approx. 10 seconds):
Parameters can be changed;
Programming: Back to next level up
7 Adjustment dial: Change settings
8 Button **AUTO/ECO/MANU**: Change between automatic, ECO and manual mode
In programming mode: Terminate (without storing)
9 Battery status
10 Operation lock
11 Symbol for Comfort temperature 1 ☼,
Comfort temperature 2 ☀, Conserve temperature ☾

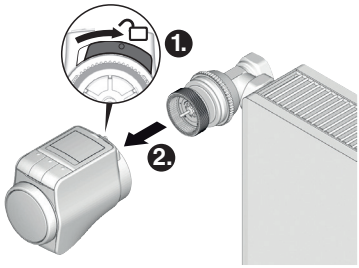
Battery display

Battery status	Meaning
	Batteries full
	Batteries half-full
	Batteries have to be replaced soon
	Flashing display: Batteries are flat and have to be replaced

Operating hints

Operating the radiator controller comfortably

The radiator controller can be removed from the radiator to facilitate programming.



1. Unlock the radiator controller. To do so, slide the slide at the radiator controller towards the 🔓.
2. Pull the radiator controller off the valve baseplate.

Lost your way in the program?

►Press the button **AUTO/ECO/MANU**
AUTOMATIC is displayed. The last entry is rejected.

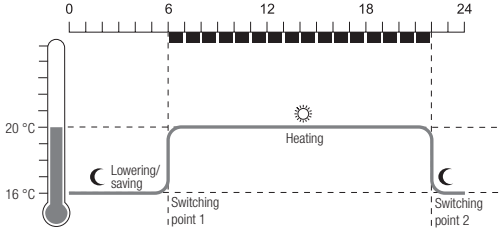
5. Functionality in automatic mode

Standard time program

In automatic mode the radiator controller automatically controls the room temperature in accordance with the stored time program.

Week program 1: At home all day

Factory preset time program is set for each day of the week (Mo – Su):



Switching point	Time	Temperature
1	6:00 – 22:00	☼ 20 °C (Comfort temperature 1)
2	22:00 – 6:00	☾ 16 °C (Conserve temperature)

- Two further week programs are stored in the radiator controller. Further information is available in Section 9.
- You can also adapt one of the stored week programs to your individual requirements, see Section 8.

Modifying the temperature temporarily

If you want to change the temperature specified by the time program **temporarily**:

▶ Set your desired temperature using the adjustment dial.

The change remains in effect until the next switching point.

The process of changing the temperatures permanently is described in Section 7.

Saving energy in ECO mode

In ECO mode the room temperature in automatic mode specified by the time program is decreased by 3 °C.

▶ To activate ECO mode press the button **AUTO/ECO/ MANU** until ECONOMY is displayed.

The displayed temperature is reduced by 3 °C.

ECO mode runs until you press the button **AUTO/ ECO/MANU** *again and select a different operating mode.*

Manual mode

In manual mode the radiator controller operates at the (manually) set temperature until you change the temperature or change to a different operating mode.

▶ To activate the manual mode press the button **AUTO/ECO/MANU** until MANUAL is displayed.

The temperature can be adjusted manually using the adjustment dial.

Manual mode runs until you press the button **AUTO/ ECO/MANU** *again and select a different operating mode.*

6. Programming – Operating modes

Overview of the operating modes

- "Party" operating mode: In this operating mode you can specify a temperature for a number of hours. After the set period has expired, the radiator controller changes to automatic mode.
- "Day off" operating mode: If a public holiday lies during the week, the automatic mode settings may not meet your requirements on these days. In such cases you can activate a “Day off” program for one or more days. After the set period has expired, the radiator controller changes to automatic mode.
- "Holiday" operating mode: In this operating mode you can specify a temperature for a specific number of days. After the set period has expired, the radiator controller changes to automatic mode.

Selecting operating modes

Selecting the "Party" or "Holiday" operating mode

1. Press the **PROG** button and turn the adjustment dial to the left until PARTY or HOLIDAY is displayed.
2. Confirm the selected operating mode with the **OK** button.

   Hours or Days flashes.
3. Use the adjustment dial to set the desired number of hours or days and confirm with **OK**.

   The temperature display flashes.
4. Use the adjustment dial to set the desired temperature and confirm with **OK**.

   The selected operating mode and the set temperature are displayed.

Selecting the "Day off" operating mode

1. Press the **PROG** button and turn the adjustment dial to the left until *dAY OFF* is displayed.
2. Confirm the selected operating mode with the **OK** button.
   dAYS flashes.
3. Use the adjustment dial to set the desired number of days and confirm with **OK**.
   The selected operating mode is displayed.

- The procedure of creating the time program for a day off is described in Section 8.
- When the number of days for holiday/day off is entered, the current day counts as the first day.
- An overview of the program structure is shown on the last page of these instructions.

7. Programming – Temperatures

For the time program three preset temperatures which can be assigned to the switching points in the time program are possible:

- Comfort temperature 1 ☼ Factory setting 20 °C
- Comfort temperature 2 ✹ Factory setting 22 °C
- Conserve temperature ☾ Factory setting 16 °C

Setting the temperatures

1. Press the **PROG** button.
   COMFORT 1 is displayed.
2. Press the **OK** button, use the adjustment dial to set the Comfort temperature 1 and confirm with **OK**.
   SAVED is displayed briefly and then again COMFORT 1.
3. Turn the adjustment dial clockwise until the next temperature is displayed.
4. Repeat Steps 2 and 3 for the Comfort temperature 2 and the Conserve temperature.
5. Use the **AUTO** button to terminate programming.

The three preset temperatures (Comfort temperature 1, 2 and Conserve temperature) can be changed at any time.

- During programming the **PROG** button can be used to return to the next level up.
- You can abort programming at any time by using the **AUTO** button.

An overview of the program structure is shown on the last page of these instructions.

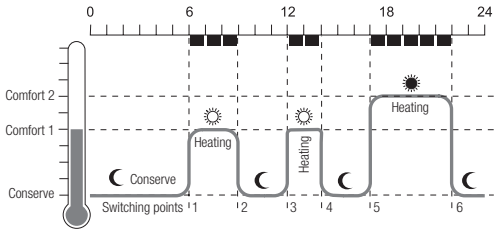
8. Programming – Time program

Planning the time program

You can specify up to 6 switching points per day.
The following has to be assigned to each switching point:

- One of the three preset temperatures (Comfort temperature 1, 2 and Conserve temperature).
- Beginning of the Heating/Conserve period
- End of the Heating/Conserve period

Example



The example shows the following time program:

Switching point	Time	Temperature
1	6:00 – 9:00	☼ 20 °C (Comfort temperature 1)
2	9:00 – 12:00	☾ 16 °C (Conserve temperature)
3	12:00 – 14:00	☼ 20 °C (Comfort temperature 1)
4	14:00 – 17:00	☾ 16 °C (Conserve temperature)
5	17:00 – 22:00	✹ 22 °C (Comfort temperature 2)
6	22:00 – 6:00	☾ 16 °C (Conserve temperature)

An overview of the program structure is shown on the last page of these instructions.

Week program

You can adjust the time program to your personal weekly schedule. You have the following options to this purpose:

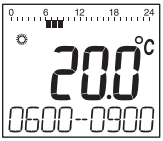
- Separate time programs for weekdays (Mo – Fr) and weekend (Sa – Su)
- One time program for all days of the week (Mo – Su)
- A different time program for each day of the week (Mo, Tu, We, Th, Fr, Sa, Su)

We recommend that you record your time program before beginning programming.

Setting the time program

Selecting weekdays

1. Press the **PROG** button.
   COMFORT 1 is displayed.
2. Turn the adjustment dial clockwise until *PROGRAM* is displayed.
3. Press the **OK** button and use the adjustment dial to select the desired weekdays for your time program: *MO - FR*, *SA - SU*, *MO - SU*, *MO*, *TU*, ..., *SU* or *DAY OFF*
4. Confirm the selected weekdays with the **OK** button.
   The temperature as well as the beginning and end of the first switching point, e.g.:



- The end of a switching point is simultaneously the beginning of the next switching point.
- Only the programmed switching points are displayed.

Viewing switching points

You can use the adjustment dial to change from one setting point to another and thus view the setting of all the programmed switching points.

Editing switching points

1. In order to edit the displayed switching point press the **OK** button.
   The temperature display flashes.
2. Use the adjustment dial to select the desired temperature (Comfort temperature 1, 2 or Conserve temperature) for the selected switching point and confirm with **OK**.
   The beginning of the selected switching point flashes.

The time scale for programming of the switching points begins at 3:00 in the morning and ends at 2:50 on the following day.

3. Use the adjustment dial to set the desired beginning for the selected switching point and confirm with **OK**.
   The end of the selected switching point flashes.
4. Use the adjustment dial to set the desired end of the selected switching point and confirm with **OK**.
   SAVED is displayed briefly. Subsequently the temperature as well as the beginning and end of the switching point are displayed.
5. For the further switching points also select the temperature as well as the beginning and end of the switching point as described in Steps 1 to 5.

- A switching point is not saved until the temperature, beginning and end have been confirmed with the **OK** button.
- If a switching point is not required, select the setting `--.-`.

Editing further weekdays

1. When all the switching points have been edited, use the **PROG** button to select the weekdays.
2. Edit the switching points for the next weekdays.
3. After all the required weekdays have been set, terminate programming with the **AUTO** button.

The radiator controller operates immediately in automatic mode with the set time program.

Deleting a switching point

► When a switching point is not required, select the temperature setting `--.-` and confirm with **OK**.

The first switching point cannot be deleted.

Adding a switching point

1. Turn the adjustment dial until *ADD NEW* is displayed and confirm with **OK**.
   The temperature display flashes.
2. Use the adjustment dial to select the desired temperature (Comfort temperature 1, 2 or Conserve temperature) for the new switching point and confirm with **OK**.
   The beginning of the new switching point flashes.
3. Use the adjustment dial to set the desired switching time for the new switching point and confirm with **OK**.
   The end of the desired switching point flashes.
4. Use the adjustment dial to set the desired end of the new switching point and confirm with **OK**.

ADD NEW is only displayed when less than 6 switching points are programmed.

9. Basic settings

Overview

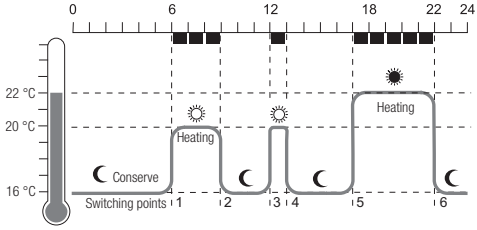
If desired, you can modify the 16 basic settings.
Factory settings have a grey background.
Parameters marked with an * are described in more detail below.

Par.	Sett.	Meaning
1		**Language setting**
	1	German
	2	English
	3	French
	4	Dutch
	5	Italian
	6	Danish
2		**Preset time programs ***
	0	Week program 1 "At home all day"
	1	Week program 2 "At home ifor lunch"
	2	Week program 3 "Working half-time"
3		**Backlight display***
	0	Deactivated
	1	Activated
4		**Summer/winter time changeover**
	0	No automatic changeover
	1	Automatic changeover
5		**Duration of the window function ***
	0	Window function not active
	30	Valve opens at the latest after 30 minutes
	...	...
	90	Valve opens at the latest after 90 minutes
6		**Sensitivity of the window function during dropping room temperature ***
	0.5	0.5 (sensitive)
	...	...
	3.0	3.0 (less sensitive)
		Factory setting: 0.8
7		**Sensitivity of the window function during rising room temperature ***
	0.1	0.1 (sensitive)
	...	...
	3.0	3.0 (less sensitive)
		Factory setting: 0.3
8		**Setting the valve stroke ***
	0	Standard valve stroke
	1	Full-stroke mode
9		**Temperature representation in the display ***
	0	Set/programmed temperature (setpoint temperature)
	1	Measured room temperature
10		**Upper temperature limit**
	16	The room temperature cannot be set higher
	17	than the specified upper temperature limit
	...	(HI LIMIT).
	30	Factory setting: 30 °C
11		**Lower temperature limit**
	5	The room temperature cannot be set lower
	6	than the specified lower temperature limit
	...	(LOW LIMIT).
	15	Factory setting: 5 °C
12		**Optimisation function ***
	0	No optimisation
	1	Optimum start
	2	Optimum start/stop
13		**Temperature offset ***
	3	To adjust the temperatures measured by the
	...	radiator controller and in the room
	-3	Factory setting: 0 °C
14		**Battery type**
	0	Alkaline
	1	Lithium
	2	NiMH (accumulator chargeable)
15		**Display of the valve position ***
	0	No display of the valve position
	1	Brief display of the valve position
16		**Restore to factory setting**
	0	No reset
	1	**Reset to factory setting.**

Description of the parameters

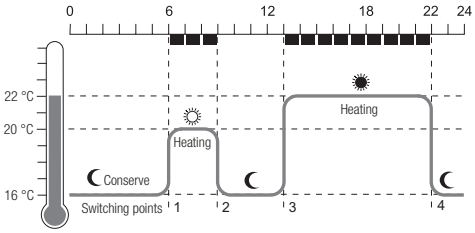
Parameter 2 – Selecting the preset time programs

- **Week program 1** (factory setting, 2 switching points):
  Mo – Su at home all day
  This time program is described in Section 5.
- **Week program 2** (6 switching points):
  Mo – Fr at home in the lunch break
  Sa – Su like Week program 1



Switching point	Time	Temperature
1	6:00 – 9:00	☼ 20 °C (Comfort temperature 1)
2	9:00 – 12:00	☾ 16 °C (Conserve temperature)
3	12:00 – 13:00	☼ 20 °C (Comfort temperature 1)
4	13:00 –17:00	☾ 16 °C (Conserve temperature)
5	17:00 – 22:00	✹ 22 °C (Comfort temperature 2)
6	22:00 – 6:00	☾ 16 °C (Conserve temperature)

- **Week program 3** (4 switching points):
  Mo – Fr working half-time
  Sa – Su like Week program 1



Switching point	Time	Temperature
1.	6:00 to 9:00	☼ 20 °C (Comfort temperature 1)
2.	9:00 to 13:00	☾ 16 °C (Conserve temperature)
3.	13:00 to 22:00	✹ 22 °C (Comfort temperature 2)
4.	22:00 to 6:00	☾ 16 °C (Conserve temperature)

Parameter 3 – Backlight

The display has a backlight in order to facilitate reading of information.

- The backlight is activated when the adjustment dial moves or a button is pressed.
- The backlight switches off if no action is carried out at the radiator controller for approx. 7 seconds in order to save energy.

Parameters 5 to 7 – Window function

In order to save energy the radiator controller closes the radiator valve when you open a window resulting in a sudden drop of the temperature.

When you close the window so that the temperature rises the radiator controller opens the radiator valve again.
If you should ever forget to close the window, the radiator controller opens automatically after the set time in order to ensure frost protection.

Parameter 8 – Valve stroke

The radiator controller operates with the optimum valve stroke set in the factory.
If the entire valve stroke is to be used or if the valve does not close completely, activate the full-stroke mode.

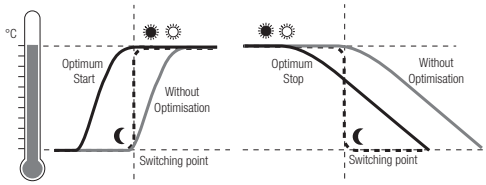
Parameter 9 – Temperature representation in the display

- In the factory setting the set or programmed temperature (Comfort temperature 1, 2 or the Conserve temperature) is displayed.
- With the setting "measured temperature" the measured room temperature is displayed. A changeover to the set temperature is carried out by turning the adjustment dial or pressing a button. If required, the temperature can now be reset. The display returns to the measured temperature after approx. 3 seconds.

Parameter 12 – Optimisation function

Without optimisation (factory setting) the radiator controller begins to raise or lower the room temperature at the programmed time. In order to have the bathroom warm at 7:00, the switching point must be preponed, otherwise heating would start only at 7:00. Possibly the switching point is preponed too much, so that heating starts much earlier than actually needed.
With optimisation the room has already reached the desired temperature at the programmed beginning since the radiator controller has begun to raise or lower the room temperature at an optimal time.

- Optimum start
  The room is heated up at an optimum moment to reach the programmed temperature.
- Optimum start/stop:
  The room is heated up at an optimum moment and cooled down earlier.



Parameter 13 – Temperature offset

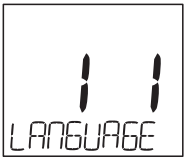
Since the radiator controller measures the room temperature in the area of the radiator, it is possible that this temperature deviates from the temperature measured at a different point in the room.
If, for example, 20 °C is measured in the room and at the radiator 21.5 °C, this effect can be compensated by an offset of –1.5 °C. The display at the radiator controller remains unchanged.

Parameter 15 – Display of the valve position

When this parameter is activated (setting "1"), the calculated valve position is displayed (0 to 100% opened) briefly.
The main display is shown again after approx. 3 minutes or when the **AUTO** button is pressed.

Changing parameters

1. Keep the **PROG** button pressed for at least 10 seconds until Parameter 1 flashes (left-hand digit).



The right-hand digit shows the current setting.
The parameter is displayed additionally in plain text.
For example, the display *1 1* stands for Parameter 1 (language) with Setting 1 (German).

2. If desired, use the adjustment dial to select a different parameter (left-hand digit).
3. Press the **OK** button to edit the parameter.
   The current setting of the parameter flashes (right hand digit).
4. Use the adjustment dial to set the desired setting (right-hand digit) and confirm with **OK**.
5. *The parameter being edited flashes (left-hand digit).*
6. For the further parameters repeat Steps 2 to 4.
7. Use the **AUTO** button to return to automatic mode.

10. Further functions

Monitoring functions

Window function

If you open a window causing the temperature to drop, the radiator controller closes the radiator valve in order to save energy.
WINDOW is displayed.
When the temperature rises again, but at the latest after the set period (factory setting: 30 minutes), the radiator controller opens the radiator valve again.
You can also open the radiator valve beforehand by pressing the **AUTO** button or turning the adjustment dial.
The sensitivity of the radiator controller to a temperature drop or temperature rise can be set, see Section 9, Parameters 5 to 7.

Valve protection

If the radiator valve has not been opened completely for 2 weeks, a self test is carried out. The radiator controller opens the radiator valve briefly on the subsequent Monday in order to prevent seizing.
CYCL is displayed.

Frost protection

If the temperature drops below 5 °C, the radiator controller opens the radiator valve until the temperature rises above 6 °C again. This prevents the heating from freezing up. *FROST* is displayed.

> **i** The heating may not be switched off. Otherwise the radiator controller cannot carry out the frost protection function.

Summer break

If you have switched off the central heating system in summer and do not want to waste the batteries of the radiator controller, you can close the radiator valve continuously.

Closing the valve

1. Press the button **AUTO/ECO/MANU** until *MANUAL* is displayed.
2. Turn the adjustment dial anti-clockwise until *OFF* is displayed.
   The radiator valve now remains closed. The valve and frost protection function remains active.

Opening the valve

▶ Use the **AUTO/ECO/MANU** button to change to automatic mode.

– or –

▶ Set the desired temperature in manual operation.

Child-proofing / Operation lock

You can block the radiator controller to protect it against unauthorised operation:

▶ Keep the **AUTO/ECO/MANU** and **PROG** buttons pressed simultaneously for at least 3 seconds.

The symbol 🔒 is displayed.

i The same key combination is used to release the radiator controller again for operation.

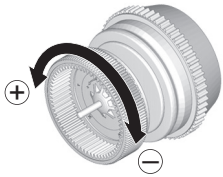
11. Help with problems

Error table

Problem/ Display	Cause	Remedy
flashes	Batteries flat	Replace the batteries.
E1 SENSOR	Device defective	Replace the device.
E2 VALVE	Motor cannot be moved.	Check the installation. If appropriate, remove the dirt.
The radiator does not become cold.	The radiator valve does not close fully.	Check the installation. If appropriate, change to full-stroke mode (Parameter 8).
The room does not heat up during optimisation	Heating is not switched on in time	Ensure that the heating system is switched on.
Motor does not move	Valve baseplate not interlocked	Set the slide to the position 🔒.

Emergency operation when batteries are flat

1. Unlock the radiator controller. To do so, slide the slide at the radiator controller towards the 🔓.
2. Pull the radiator controller off the valve baseplate.
3. Operate the radiator valve by hand using the adjustment dial on the valve baseplate.



Restoring the factory setting

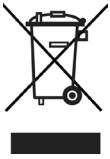
1. Keep the **PROG** button pressed for approximately 10 seconds until Parameter 1 flashes (left-hand digit).
2. Use the adjustment dial to select Parameter 16 (left-hand digit) and Setting 1 (right-hand digit).
3. Press the **OK** button to restore the factory setting.

12. Technical data

Type	HR30
Protection class	IP30
Supply voltage	Batteries 2 x 1.5 V; type LR6, AA, AM3
Connection to the radiator	M30 x 1.5
Ambient temperature	0 ... 50 °C
Dimensions	94 x 50 x 69 mm
Ambient conditions	For living area, business and trade sections as well as small businesses
Humidity	10 ... 90% rel. humidity

13. Disposal

The radiator controller has to be disposed of in accordance with WEEE directive 2002/96/EC – Waste Electrical and Electronic Equipment directive.



▶ Dispose of the packaging and product in a corresponding recycling centre.
▶ Do not dispose of the unit with the domestic refuse.
▶ Do not burn the product.

14. Programming – Overview

Temperatures and operating modes

(turn adjustment dial anticlockwise) <—				Button **PROG**	—> (turn adjustment dial clockwise)		
TIME DATE	HOLIDAY	DAY OFF	PARTY	COMFORT 1	COMFORT 2	ECO TEMP	PROGRAM
OK	OK	OK	OK	OK	OK	OK	OK
<—> Hour	<—> Days	<—> Days	<—> Hours	<—> Temp.	<—> Temp.	<—> Temp.	**Edit time program, see below**
OK	OK	OK	OK	OK	OK	OK	
<—> Minute	<—> Temp.		<—> Temp.				
OK	OK		OK				
<—> Year							
OK							
<—> Month							
OK							
<—> Day							
OK							

Time program

PROGRAM
OK

<—> (turn adjustment dial)

MO - FR	SA - SU	MO - SU	MO	TU	...	SU	DAY OFF
OK	OK	OK	OK	OK	OK	OK	OK

<—> (turn adjustment dial)

Switch. point 1	...	Switch. point 6	**New switching point:**	ADD NEW	**Delete a switching point:**	Switch. point x	
OK	OK	OK		OK		OK	
<—> Temp.	<—> Temp.	<—> Temp.		<—> Temp.		<—> --:--	(Delete)
OK	OK	OK		OK		OK	
<—> Beginning	<—> Beginning	<—> Beginning		<—> Beginning			
OK	OK	OK		OK			
<—> End	<—> End	<—> End		<—> End			
OK	OK	OK		OK			

Subject to change in order to improve the product.

Hotline: **xxx xxx xxx**

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