

## Error messages

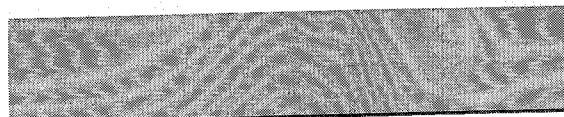
If a fault or error occurs, the thermostat will display an error code as follows:

- E0: Internal failure. The thermostat is defective. Replace thermostat.
- E1: Internal sensor defective or short-circuited.
- E2: External sensor defective or short-circuited.
- E5: Internal overheating. Inspect the installation.

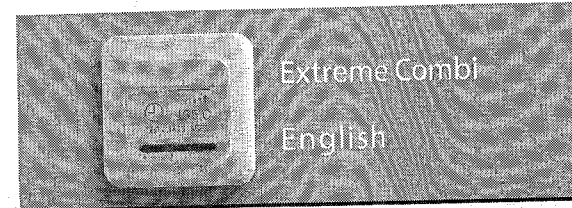
## Factory settings

### Preset schedule

Day 1-5			
Event	Time	With floor sensor	With room sensor
Morning	06:00-08:00	25 °C	20 °C
Daytime	08:00-16:00	20 °C	15 °C
Daytime 2	08:00-16:00	20 °C	15 °C
Evening	16:00-23:00	25 °C	20 °C
Evening 2	16:00-23:00	25 °C	20 °C
Night	23:00-06:00	20 °C	15 °C
Day 6-7			
Event	Time	With floor sensor	With room sensor
Day	08:00-23:00	25 °C	20 °C
Night	23:00-08:00	20 °C	15 °C



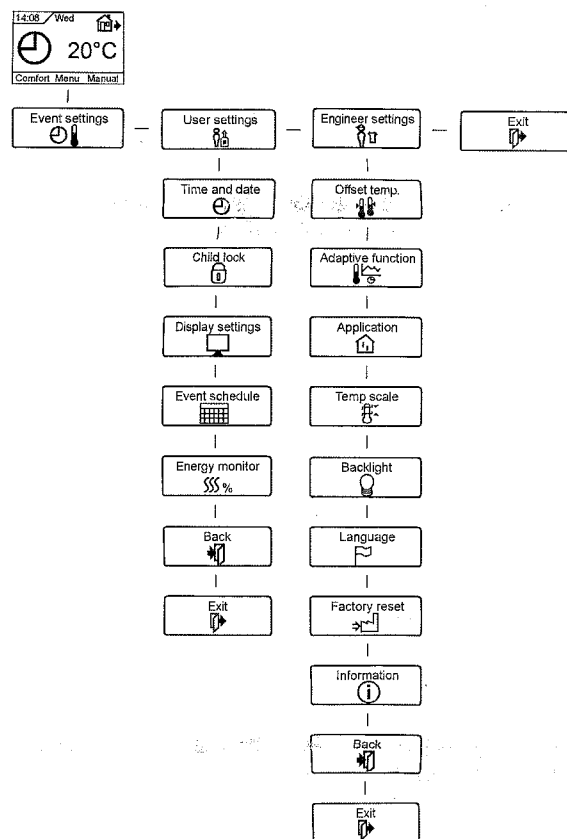
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## Contents

Menu .....	6
Introduction .....	7
First time settings .....	7
General operation .....	8
Back .....	8
Exit .....	8
Operation mode .....	9
Auto mode .....	9
Manual mode .....	9
Comfort mode .....	9
Thermostat setup menus .....	9
Event settings .....	9
User settings .....	11
Time and date .....	11
Child lock .....	11
Display settings .....	11
Event schedule .....	12
Energy monitor .....	13
Engineer settings .....	13
Offset temperature .....	13
Adaptive function .....	14
Application .....	14
Temperature scale .....	14
Language .....	15
Factory reset .....	15
Information .....	15
Back .....	15
Exit .....	15
Error messages .....	16
Factory settings .....	16
Preset schedule .....	16

## Menu

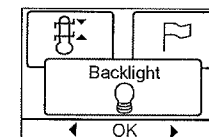


## Display illumination

There are three settings for the display backlighting:

- Auto: Backlighting is activated whenever a key is pressed and goes out automatically 30 seconds after the last key press.
- On: Backlighting continuously on.
- Heating active: Backlighting comes on when heat is called for by the thermostat.

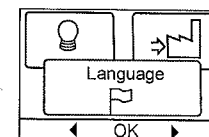
Select the desired backlighting setting and confirm with OK.



## Language

Allows the language used on the display to be changed.

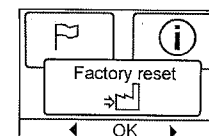
Press OK and select the required language. Confirm with OK.



## Factory reset

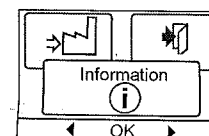
Allows factory settings to be restored. Your personal settings will be lost, see Factory settings.

Press OK and choose Reset in the menu. Confirm with OK.



## Information

Displays the thermostat software version.



## Back

In various parts of the menus and sub-menus you will find the Back menu item. Use Back to return to the last step.

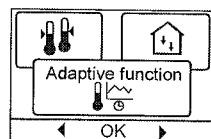
## Exit

Returns to initial display.

### Adaptive function

Ensures that the required temperature has already been reached when you get up in the morning or come home from work. After just a few days, the adaptive function will have automatically calculated when the heating must be turned on.

Press OK and set the function to On. Confirm with OK.



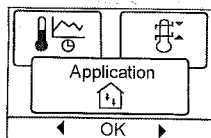
### Application

Set the type of regulation used.

There are 4 options:

- Floor reg.: The thermostat regulates floor temperature only. A floor sensor must be connected.
- Room reg.: The thermostat regulates room temperature only.
- Room/limit: The thermostat regulates room temperature with min. and max. limits for floor temperature. A floor sensor must be connected.
- Regulator: The thermostat functions as a simple regulator and no sensors are used. The setting is a percentage.

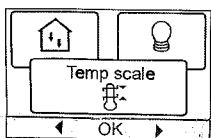
Press OK and select the required application. Confirm with OK.



### Temperature scale

Allows you to set the temperature range within which the thermostat can be set. It is then only possible to set a temperature within this range in auto, comfort and manual mode.

Press OK to highlight Min temperature. Use the up or down button to select the minimum permissible temperature. Press OK and select the maximum permissible temperature. Confirm the settings with OK.



### Introduction

The thermostat can switch on your heating system at predetermined times on different days of the week. For each day of the week, you can set individual temperatures for 4 or 6 separate periods, called events. Lowering the temperature when the home is unoccupied will reduce your energy costs without reducing comfort. The thermostat comes with a default schedule suitable for most homes. Unless you change the settings, the thermostat will operate in compliance with the default schedule.

Furthermore, the thermostat also features an adaptive function that determines how long the floor takes to heat up and cool down as the seasons change, and takes this into account when turning the heating on or off. This ensures that the room is always up to temperature at the desired time. The adaptive function's fuzzy logic takes three days to determine the heat characteristics of the room before it operates efficiently.

### First time settings

The first time you switch the power switch ON "I", language, time and date must be set. The menu will automatically guide you through the process.

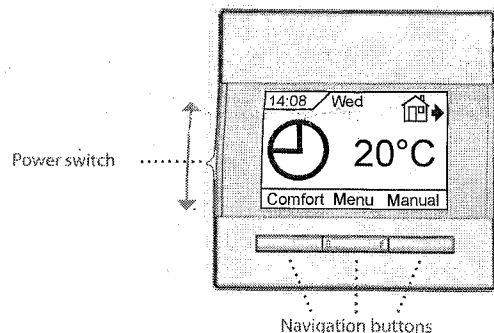
- Choose your language with the Up and Down buttons and confirm with OK.
- Set the actual hour and press the OK button. Then set the minutes. Press OK.
- Set the actual date: year, month and day. Confirm the settings with the OK button.

The next menu allows you to select the application you want the thermostat to control. If the thermostat is in the room to be heated, select Room/limit. The best way to control underfloor heating is with just a floorsensor, select Floor and press OK.

You now need to select the actual floor covering so that the thermostat can take this into account during operation. Select the actual floor covering and press OK.

You now need to enter the system load, the total wattage installed in the floor and output of the powered by the thermostat. Select the appropriate load and press OK.

The thermostat is now ready for use and your underfloor heating will operate in accordance with the pre-programmed Event schedule. See Factory Settings for full details of this.



## General operation

The power switch button allows you to turn the thermostat on "I" and off "O" by sliding the button up and down. When the thermostat is switched off "O", the relay disengages. All settings, including time and date, will be remembered.

The thermostat is intuitively operated using the navigation buttons. The function of each button is indicated above the button in the display.

### Back

In various parts of the menus and submenus you will find the Back menu item.

Use Back to return to the last step.

### Exit

Returns to initial display.

## Energy monitor

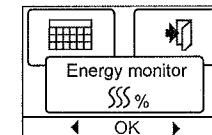
Allows you to view energy consumption for the past 2 days, 30 days or 365 days. Press OK for the chosen period. The value in per cent (%) shows the relative amount of time the heating has been on.

The following figure is the cost for the selected period. To ensure correct calculation, check the settings for currency, price per kWh and load.

**Currency:** Press OK and chose the required currency. Confirm with OK.

**Cost/unit:** Press OK and set the actual cost of electricity. The cost must be entered per kWh. Press OK.

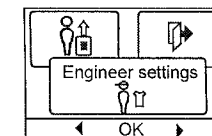
**Load:** Press OK and enter the connected heating power. The value must be in watt (W). Press OK. Leave the menu by pressing Exit.



## Engineer settings

The Engineer settings menu contains the following options:

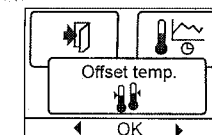
- Offset temperature
- Adaptive function
- Application
- Temperature scale
- Language
- Factory reset
- Information



## Offset temperature

If the actual measured temperature does not corresponding to the thermostat value, you can adjust the thermostat by offsetting the temperature.

Press OK and enter the value of the measured temperature. Confirm with OK.

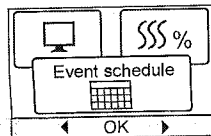


Press the OK button to select or deselect the display options. Then select Exit in the menu to return to the initial display and view your chosen settings.

\* Only with floor application.

### Event schedule

Allows you to choose the type of weekly Event schedule you require.



- 5:2 4-event : Monday to Friday with 4 events and Saturday to Sunday with 2 events. Typically used if you work from Monday to Friday.
- 6:1 4-event : Monday to Saturday with 4 events and Sunday with 2 events. Typically used if you work from Monday to Saturday.
- 7:0 4-event : Monday to Sunday with 4 individual events. Allows you to choose individual programs for each of the 7 days of week.
- 5:2 6-event : Monday to Friday with 6 events and Saturday and Sunday with 2 events. Typically used if you work from Monday to Friday.
- 6:1 6-event : Monday to Saturday with 6 events and Sunday with 2 events. Typically used if you work from Monday to Saturday.
- 7:0 6-event : Monday to Sunday with 6 events. This allows you to choose individual programs for each day of the week.
- 0:7 6-event : Monday to Sunday with 6 events and the same program for all days of the week.

Select the required 4 or 6 event schedule and confirm with OK. For instructions on programming the time and temperature for the Event schedule, see Event settings.

## Operation mode

The thermostat features three different modes of temperature control:

### Auto mode

⌚ Select Auto if you want the temperature to be controlled automatically via the 4 or 6-event schedule.

### Manual mode

👤 Select Manual to cancel the programmed Event schedule (e.g. during holidays) and to set the required temperature manually. You may, for example, want to adjust the temperature to 15°C for frost protection while you are away.

- Press Manual, confirm with OK and choose the required temperature.

### Comfort mode

👤 Select Comfort to set a temporary comfort temperature (so-called party mode) for a single event.

- Press Comfort, confirm with OK and choose the required temperature. Then enter the required duration of comfort mode.

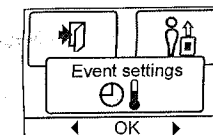
After the set time has elapsed, the thermostat will automatically revert to Auto mode.

## Thermostat setup menus

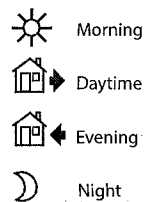
The menu allows you to select the following options:

### Event settings

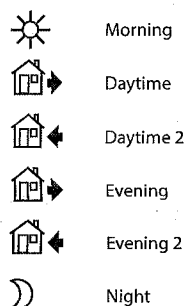
Allows you to have the temperature controlled automatically in accordance with a program of your own choice. You can select temperature settings for 4 or 6 different events during the day:



## 4-Events\*



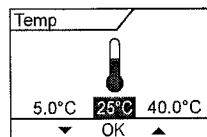
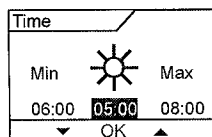
## 6-Events\*



\* Depending on the chosen schedule, see User Settings/Event schedule.

The thermostat is pre-programmed with a Event schedule for easy and economic heating control, see Preset schedule under Factory settings. The schedule can be easily changed in the following way:

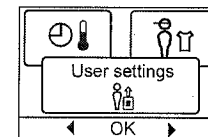
1. Press the OK button to activate the Event settings display.
2. Choose the days for which you want to change the settings, Mon-Fri or Sat-Sun using the up or down button. Press OK.
3. Now select the time and temperature for each daily event in the program. Press OK and set the start time for the event concerned. Confirm with OK. Set the temperature for this event and confirm with OK.
4. After setting the required events, select Exit in the menu to return to the initial display.



## User settings

In the user settings menu you can change the following items:

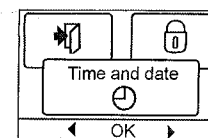
- Time and date
- Child lock
- Display settings
- Event schedule
- Energy monitor



## Time and date

Press OK and set the actual time in hours and minutes.

The date will then be displayed. Set the date and confirm with OK.

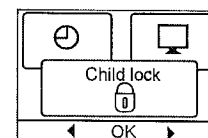


## Child lock

Allows you to lock the thermostat settings, e.g. in public or other places where you do not want the settings changed.

Press OK and set the child lock to On using the down button. Confirm with OK.

The child lock can be unlocked by pressing both the Comfort and Manual buttons simultaneously for 5 seconds.



## Display settings

Allows you to select what is shown on the initial display.

Time/day: Shows the actual time and day at the top of the display.

Set temp.: Shows the current temperature setting.

Act. temp\*.: Shows the actual measured temperature.

Scr. saver: Switches off the display after 30 seconds if no button is pressed. Any subsequent press of a button reactivates the display. The thermostat remains on and runs the selected program.

