7 day, Single Channel Digital Wireless Programmer and Room Thermostat – Part No. CT200001

The digital wireless programmer and room thermostat is a 7 day radio frequency (RF) wireless thermostat / timer, which communicates with a receiver designed to fit in the clock aperture of the boiler control panel. The unit can be pre-programmed to provide maximum and minimum room temperature control. Each day can be programmed with the same – or different – time periods. The programme can be temporarily or permanently overridden to increase or decrease the desired temperature setting.

The batteries should operate the unit for approximately 18 months to 2 years depending on the number of switching operations etc. Only good quality alkaline batteries should be used. When the batteries need replacing, a low battery symbol will be displayed. After replacement, all the programmes and temperature settings remain stored and no resetting is required.

Note: If the batteries are not replaced and no valid signal is received from the Transmitter, the Receiver's neon light will flash every 0.5 seconds. After 1 hr the boiler will operate in 'Emergency mode' (heating on for 4 min. and off for 9 min.) until the batteries are replaced.

Note; always press the reset button after removing or replacing the batteries.

This timer is suitable for installation as a time controller for:

ATAG iC 24 Combi

ATAG iC 28 Combi

ATAG iC 36 Combi

ATAG iC 40 Combi

ATAG Economiser 27

ATAG Economiser 35

ATAG Economiser 39

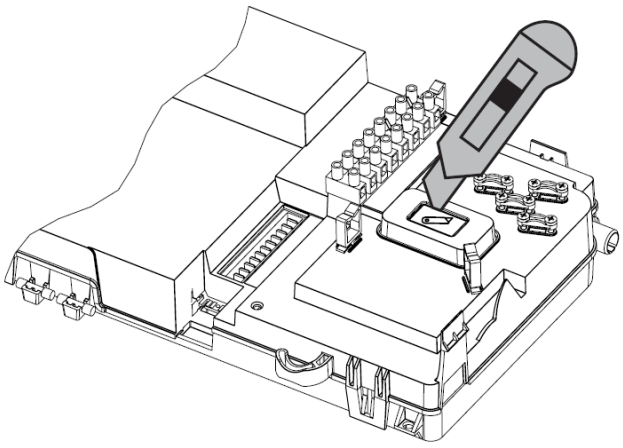
***WARNING*. This unit must be installed by a skilled electrician in accordance with the current I.E.E. Wiring Regulations.**

ALWAYS switch off and disconnect the electricity supply to the appliance before installing the programmer. Merely switching the boiler ON/OFF switch to 'OFF' will still leave a live feed to the boiler.

1. To install the receiver

1. Turn the power off to the boiler
2. Remove the boiler front panel and swing the control panel into the service position. Refer to boiler Installation & Servicing Manual.
3. With a sharp knife, cut out the small plastic cutaway (fig 1) to allow the wires to go through and the wires grommet to secure into position.
4. Remove the blank clock control panel and feed the wires through to the back (fig 2). Fit the new receiver front panel into the facia of the boiler.
5. Check the wires grommet is in the correct position (fig 3).
6. Fit the black connector with two black wires onto the volt free connection next to the black label with a house symbol and on / off below (fig 4).
7. Remove the small electrical blanking cover and fit the White connector with brown and blue wires to the 230v ac connection terminals (fig 4).
8. Secure the wires in to wire clips as shown in fig 5.
9. Swing the control panel back up into operating position.
10. Power up the boiler and check for correct operation.

1



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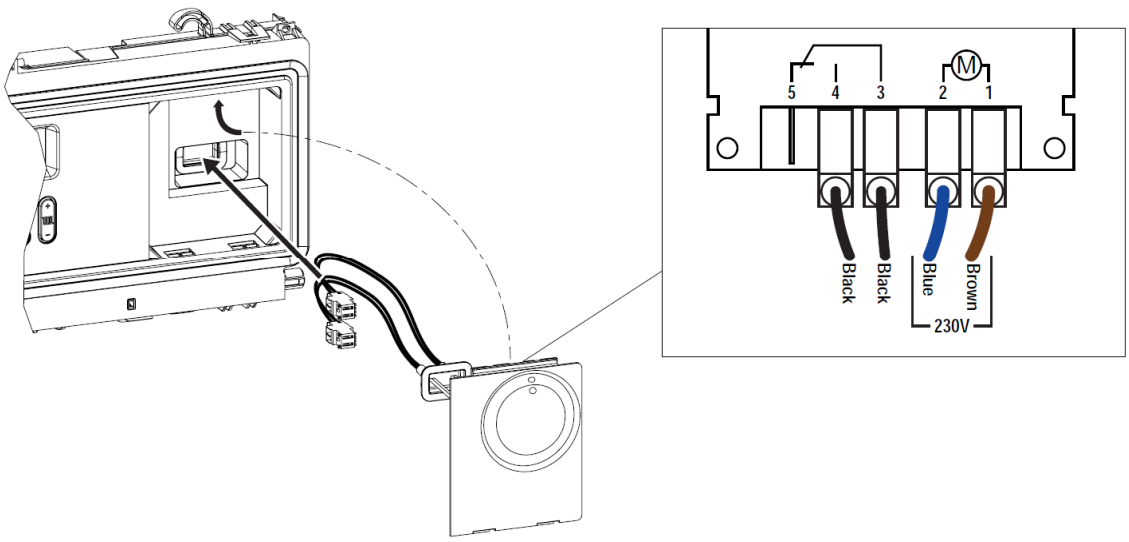

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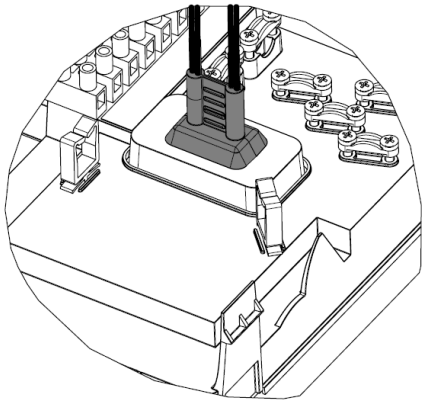

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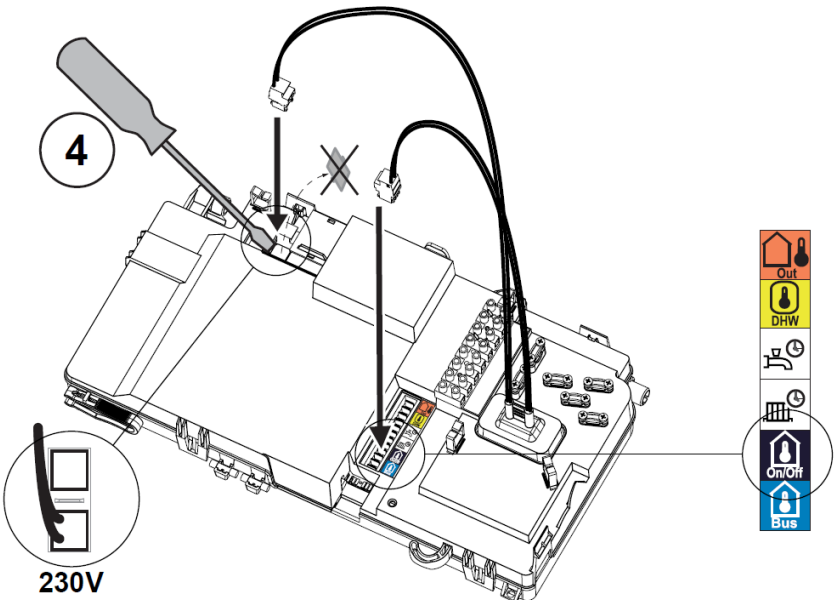

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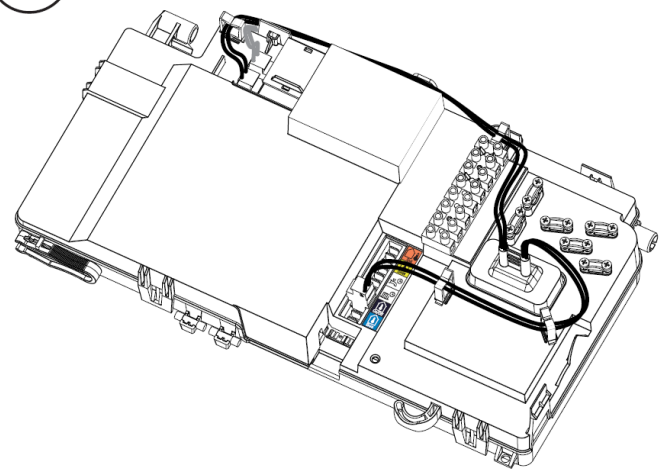
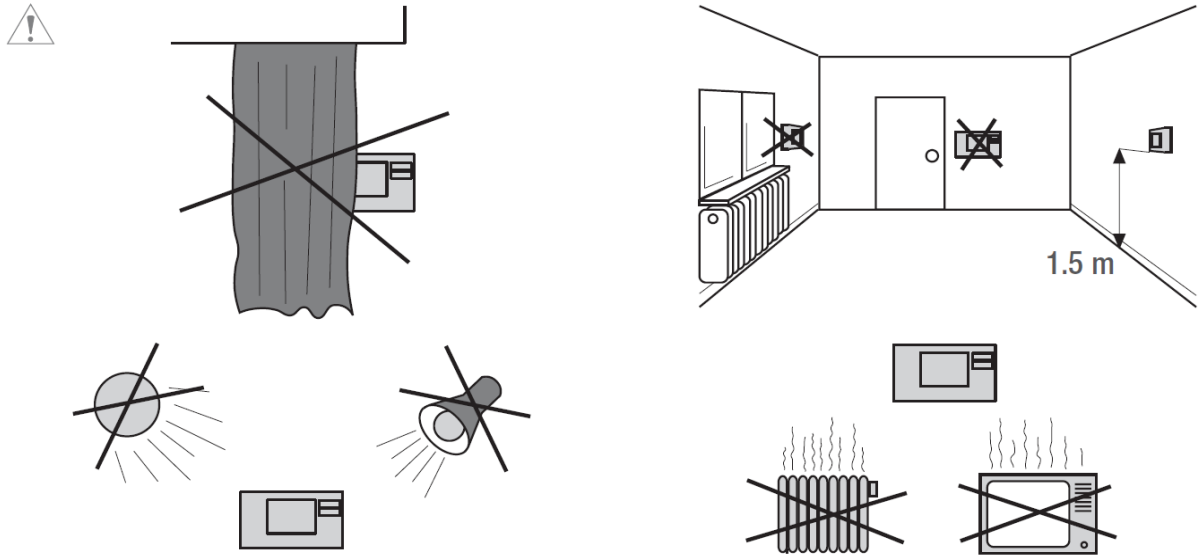


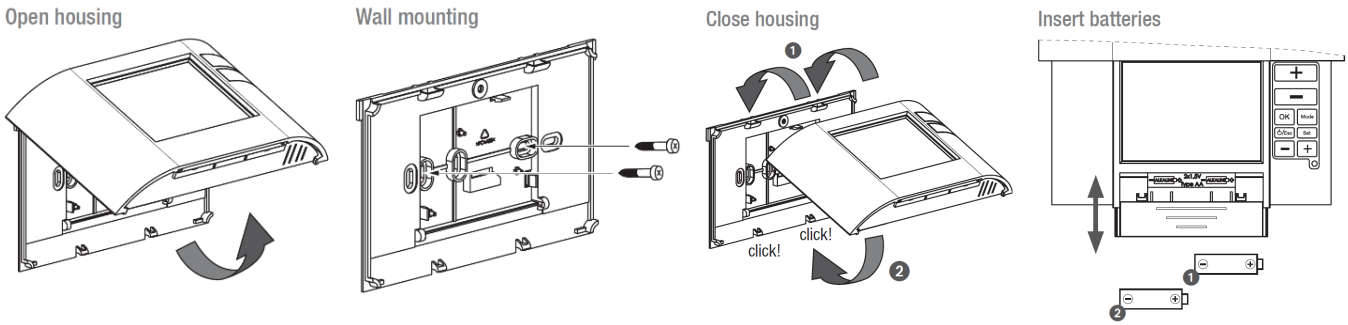
2. Installation of Transmitter

Locate and fit the transmitter to the wall 1.5m from the floor, taking into consideration where not to position the transmitter as shown the next diagram.
The following can reduce, deflect or block radio frequency signals between the transmitter and receiver.

a. Steel reinforced walls.
b. Large metallic objects e.g. kitchen appliances, filing cabinets, mirrors etc.
c. Maximum distance between Receiver and Transmitter is:-
    i. In open air 50m.
    ii. In building 20m to 30m depending on radar obstruction.

Transmitter Position





Remove wall mounting rear panel from Transmitter

Secure rear panel to wall. **Note:** There must be a top clearance of at least 80 mm to allow the front cover to be raised upwards

Re-assemble Transmitter to rear panel

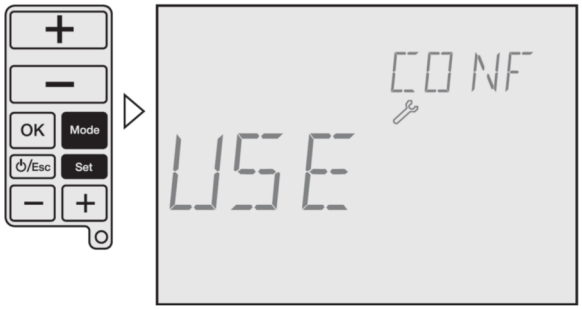
Slide the front cover up, open the battery compartment and fit the batteries. Ensure the batteries (2 x 1.5V L26/AA) are correctly fitted

3. Commissioning

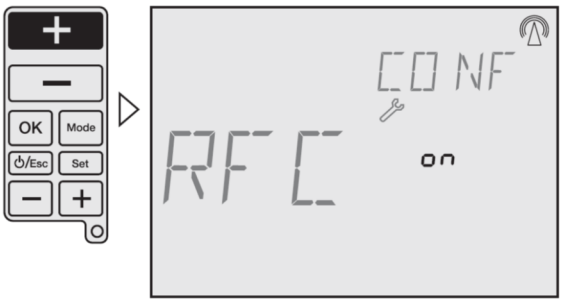
The Digital Thermostat and Receiver are pre commissioned (paired) at the factory.

However, if the Receiver or Transmitter has been changed then full commissioning will be required as follows:-

1. Press and hold the black button of the receiver until the LED light has flashed twice. Release the button and the LED light will remain illuminated.
2. Press and hold MODE-button and SET-button of the transmitter at the same time for more than 3 seconds to enter into the User menu. Then press the OK-button until RF Comm is displayed.

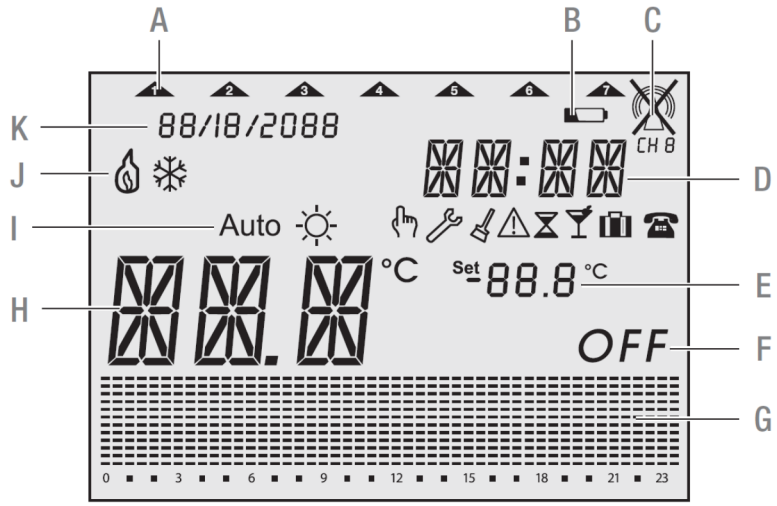


3. Press upper + button (– button disables the RF signal) to enable a continuous RF signal. The receiver LED will go out as soon as a signal from the transmitter is received. Then press the OK-button, the radio link between transmitter and receiver is now established. Press the ESC-button to return to Auto mode.



4. Receiver: When operating in heating mode and an ON signal is received, the LED illuminates continuously. When an OFF signal is received the LED will flash intermittently.

4. Display



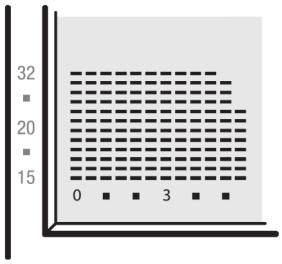
A Current week day
B Battery
C RF signal
D Current time
E Set temperature
F Off mode
G Histogram over 24 hours
H Current temperature
I Operating mode
J Status indication
K Current date

Operating and adjustment

Operating information

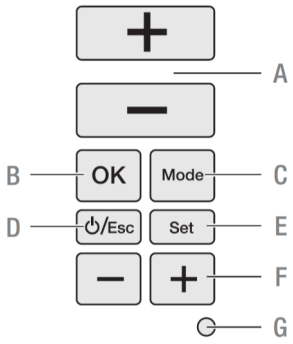
- Flashing texts signal the need for an entry. If no button is pressed for 2 minutes, the device reverts to the Automatic mode.
- All settings need to be confirmed with OK.
- All settings saved will remain in the memory.
    - The histogram shows the programmed temperature profile

7 – 14 °C = displayed as one segment
15 – 24 °C = one segment displays 1 °C
over 24 °C = one segment displays 2 °C



Function Keys

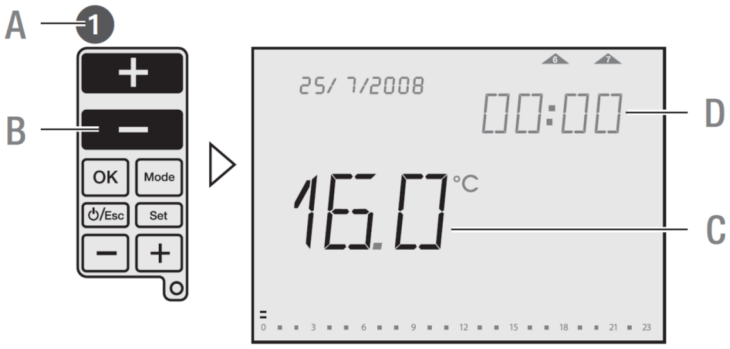
A. **+/–** buttons used to increase/decrease temperatures.
B. **OK**-button to confirm settings and go to the next step.
C. **MODE**-button to select from the available operating modes.
D. **ESC**-button used for ON/OFF, go one step back in menu or return to main menu by pressing the button more than 3 seconds.
E. **SET**-button for settings following commissioning.
F. **+/–** buttons used to increase/decrease hours, days and events.
G. **RESET**-button to return to factory settings. The programs are retained in the case of a reset. The date and time must be set again. Press reset button with a blunt object (pen).



Configuration

General information
For the use of this manual you must observe the following information:

A Sequence of operation
B Pressed buttons are shown in black.
C Flashing elements are shown in black
D Fixed elements are shown in grey



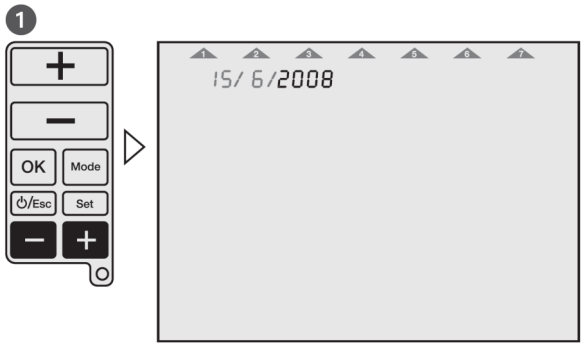
- Buttons which can be pressed during an action are shown in black. The related display is also shown in black.
- Follow exactly the numbers of the sequence of operation.
- The configuration of the device is described based on configuration.
- After starting the device for the first time, follow the menu for a correct configuration of the device.
- Following commissioning, you can also change the configuration by pressing the SET-button.

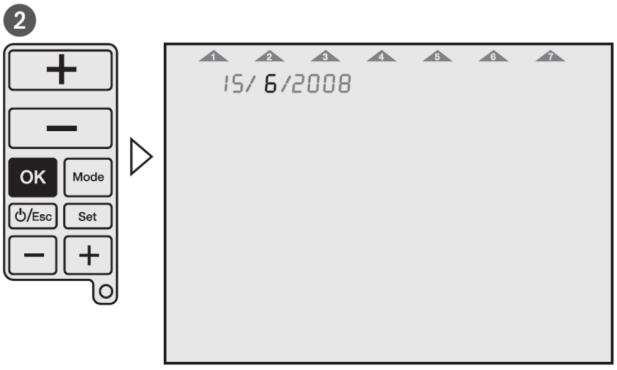
Initial start-up

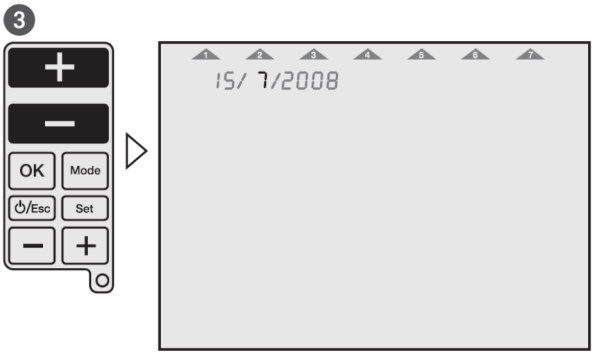
Set date and time

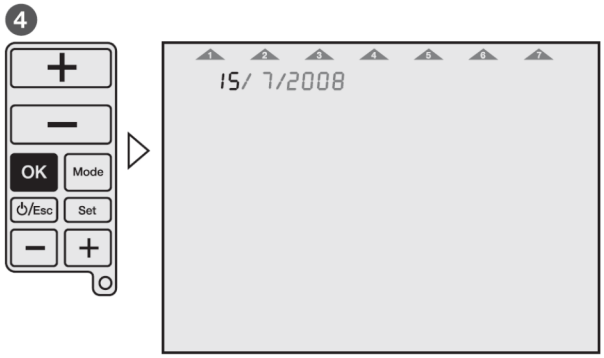
Sequence for setting the date and time during initial start-up.
15/6/2008 appears as factory default.

To set the date and time after initial start-up press the SET-button, then choose Date or Time Menu with the upper **+/–** buttons and confirm with **OK**.

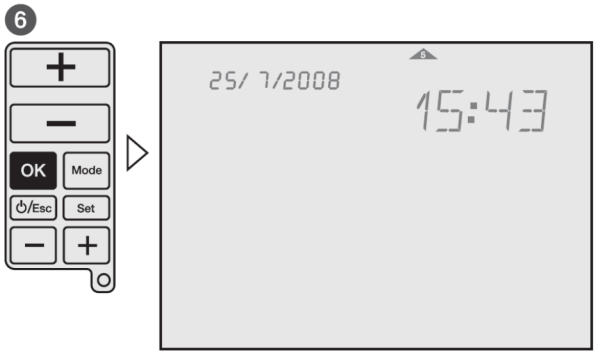








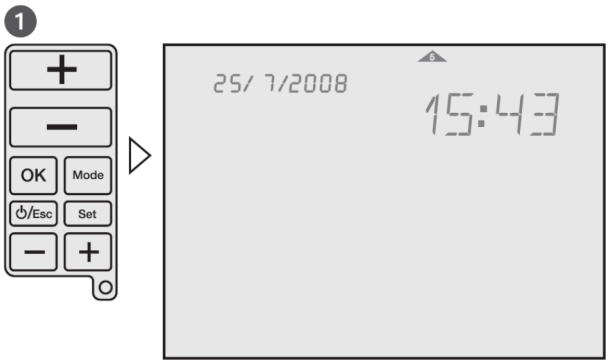
5. The time is set in the same way as the date.

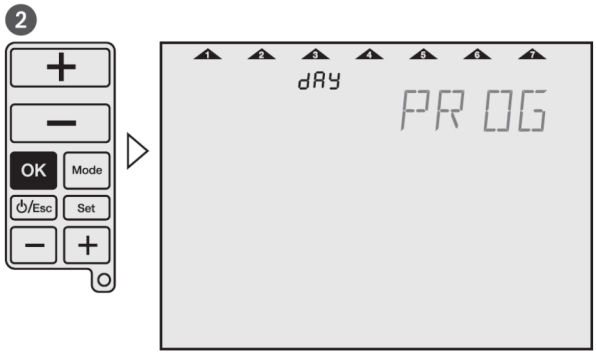


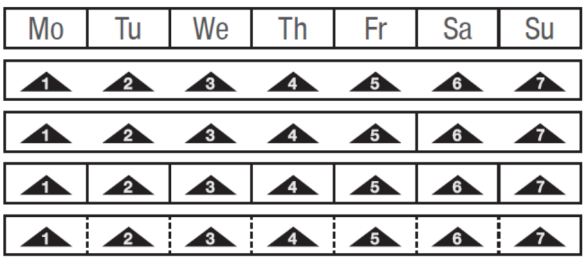
Programming

Sequence for specifying programs during initial start-up

To specify programs after initial start-up press the **SET**-button, then choose the Prog menu with the upper **+/–** buttons and confirm with **OK**.







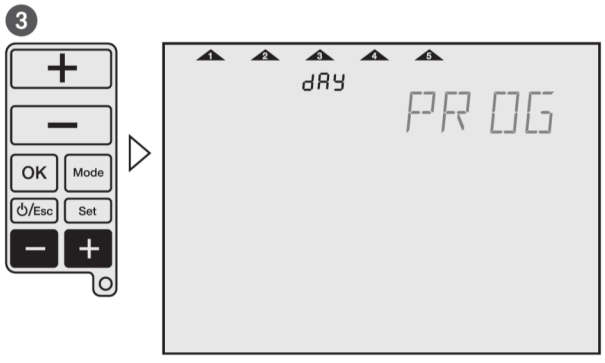
Choose between:

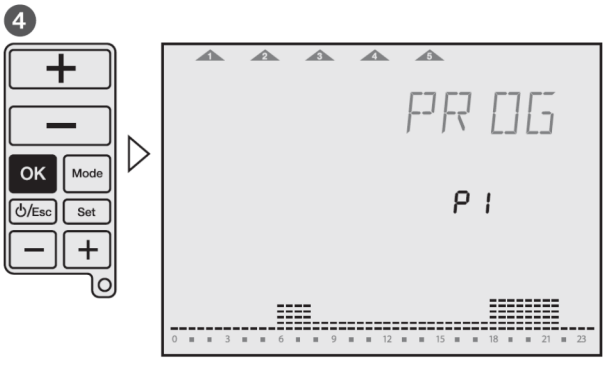
7 days – one programme

5-2 days – one program per day block

1-7 days – each day an individual program

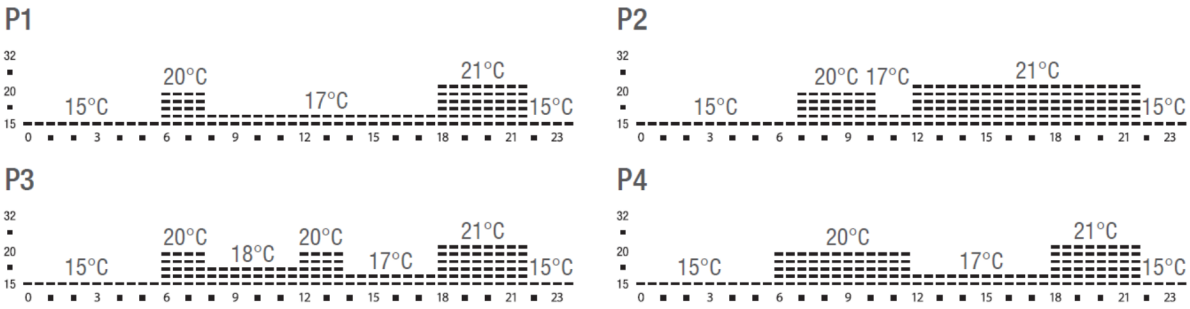
free block formation – one program per day block





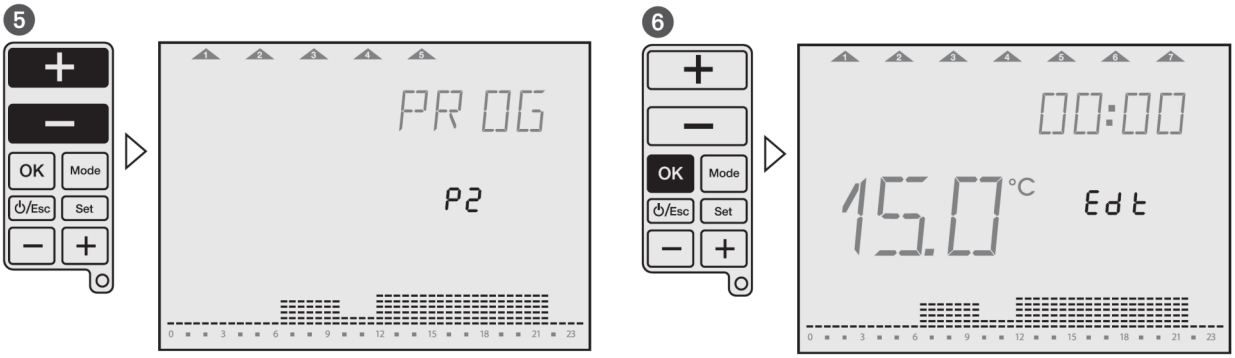
Select program

Each weekday or day block must be allocated a program P1, P2, P3, P4 (pre-defined) or Pd (user defined).



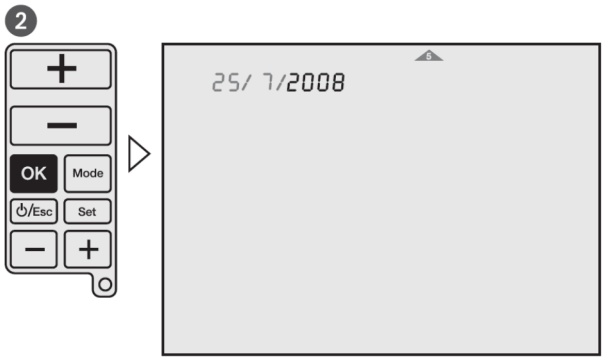
Pd
User-defined program.
During initial start-up, program will be shown with 15ºC from 00:00 to 23:59 PM.

If you wish you can modify the pre-defined programs. Use the upper +/– buttons to increase/decrease the temperature of each segment by 0.5°C. Use the lower +/– buttons to go forward/backward 30 minutes each time and copy the selected temperature value.

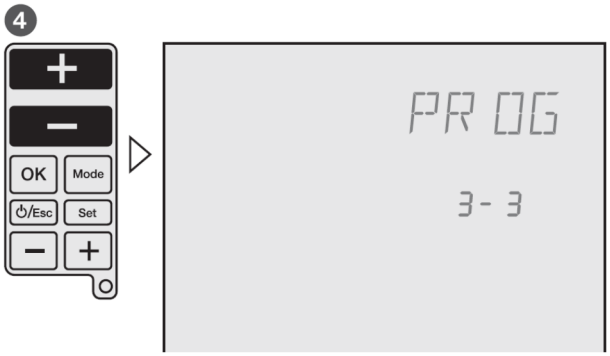


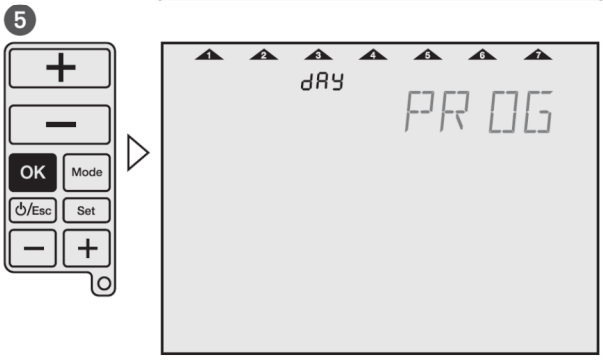
Settings

After commissioning you can change the date, time, temperature and time programming. By pressing the upper +/– buttons you jump to the different menus.
1-3 = adjustment of date
2-3 = adjustment of time
3-3 = adjustment of time and temperature programming



3. You are now able to adjust the date as described in the initial start-up. The sequence of setting the time is similar to the method for setting the date.

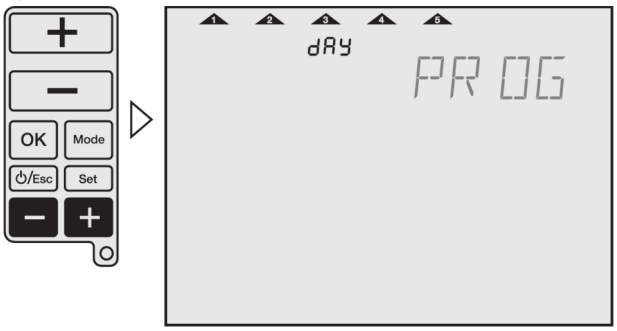




With the lower +/– buttons you can choose days or day blocks for programming and confirm with OK. Go to operation number 6.

By pressing the OK-button you can choose between the pre-defined programs P1 – P4 or the user-defined program Pd. Go to operation number 7.

6



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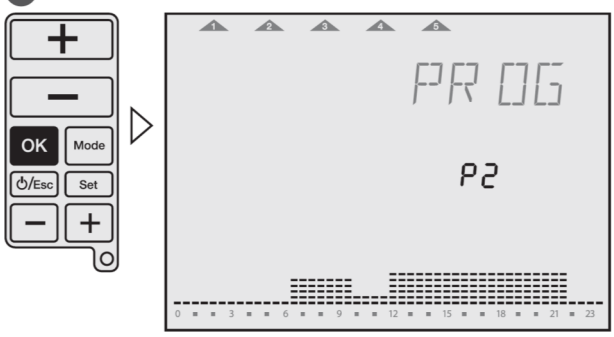

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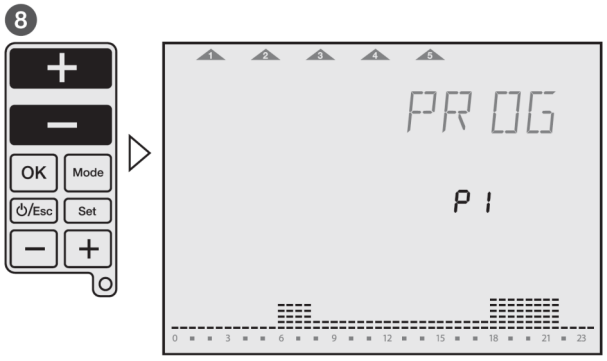

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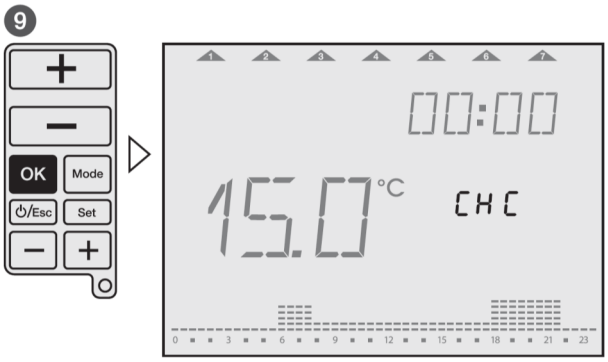

By pressing the lower +/– buttons you can go through the program to check it.
For editing the program, use the upper +/– buttons to increase/decrease temperature in each segment by 0.5°C. Use the lower +/– buttons to go forward/backward and copy the selected temperature value.

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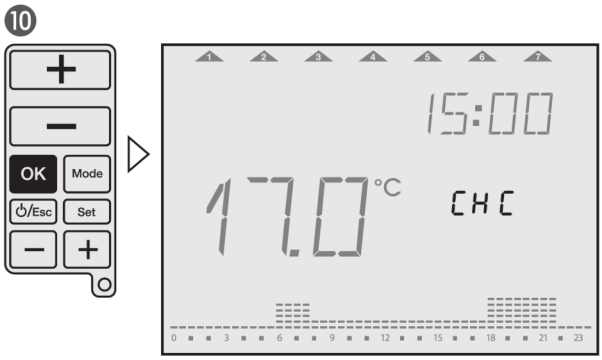

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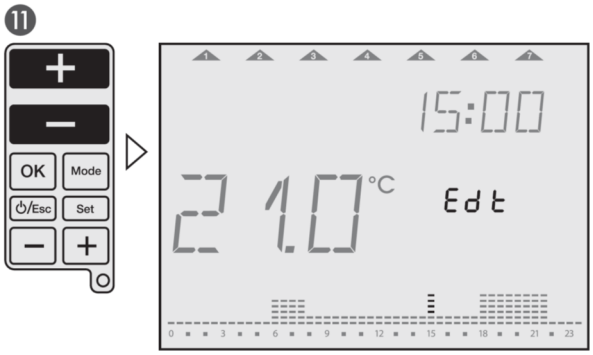

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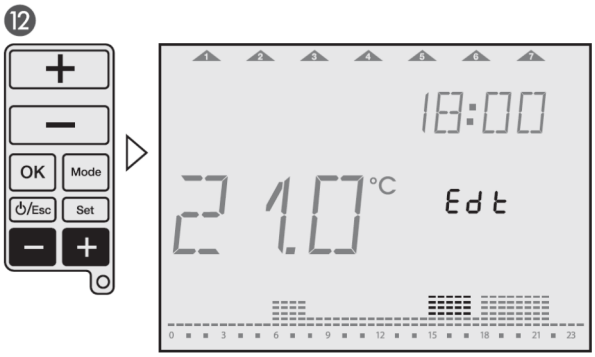

Operating modes

Set operating modes
Follow the sequence for selecting the desired operating mode. The operating modes in the device appear in the same order as described here.

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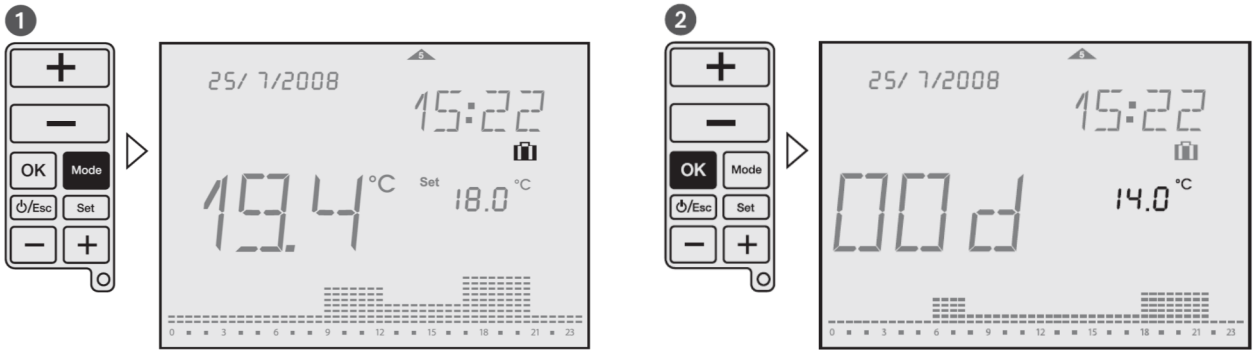
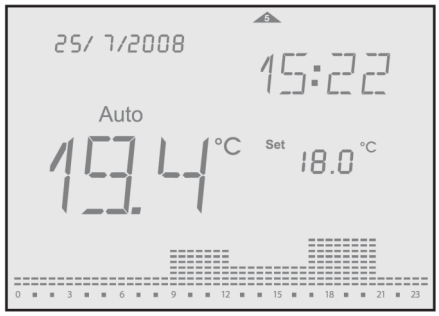
Press and hold the ESC-button for 3 seconds to return to Auto mode.



Auto

Symbol: **Auto**

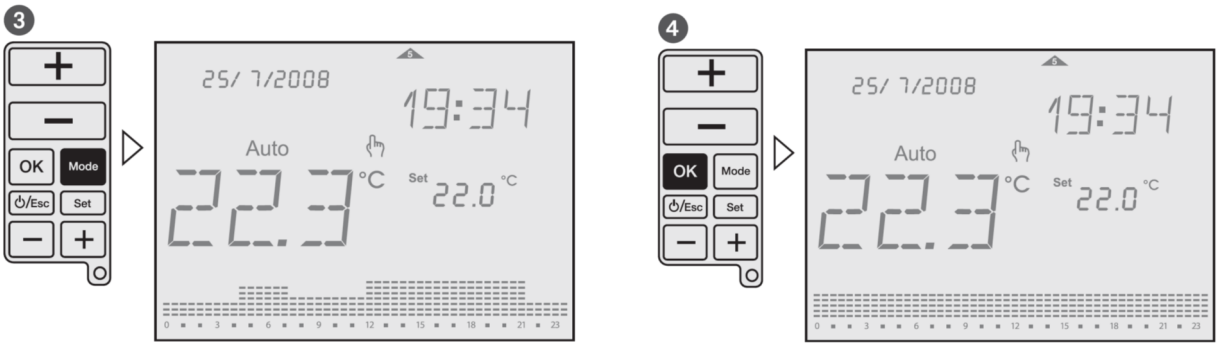
After each programming session, the device automatically returns to the Auto mode. The predefined or user-defined program run here.



Manual-ECO-Fix

Symbol: Auto

Manual-ECO-Fix mode calculates an average temperature of the actual program. This temperature is is kept for the whole day until any user‘s intervention is made. To return to Auto mode, press OK.
The average temperature is the starting point for increasing or decreasing the desired temperature, pressing upper +/– buttons. The new temperature set value is then, after 3 sec., set for all day long.
Example: 4 different temperatures in the actual program (e.g. 17°C, 19°C, 20°C and 22°C).
Average temperature is then 19.5°C.

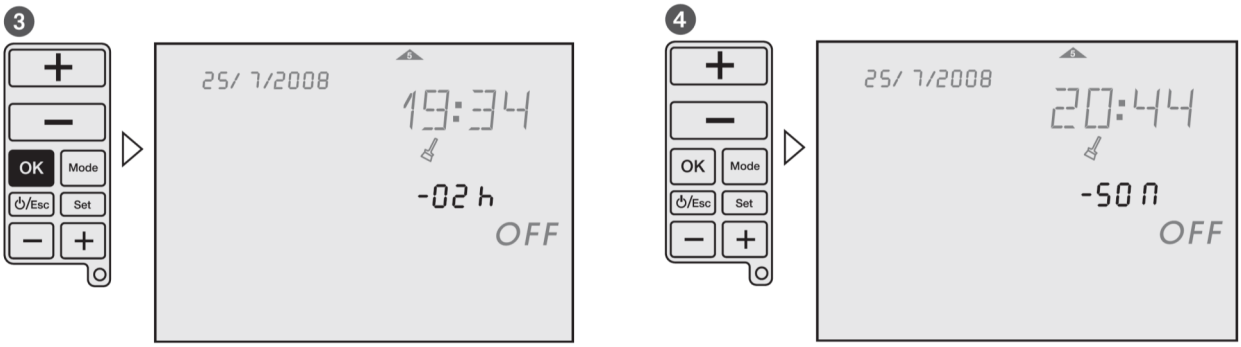


Cleaning mode

Symbol:

This mode sets the device into OFF mode for a pre-set time of 2 hours. During the cleaning time, remaining time is shown until running mode elapsed. After the Cleaning mode is elapsed, the device returns into Auto mode.

To end Cleaning mode early, press ESC-button for more than 3 seconds.
The anti-freeze protection is granted.



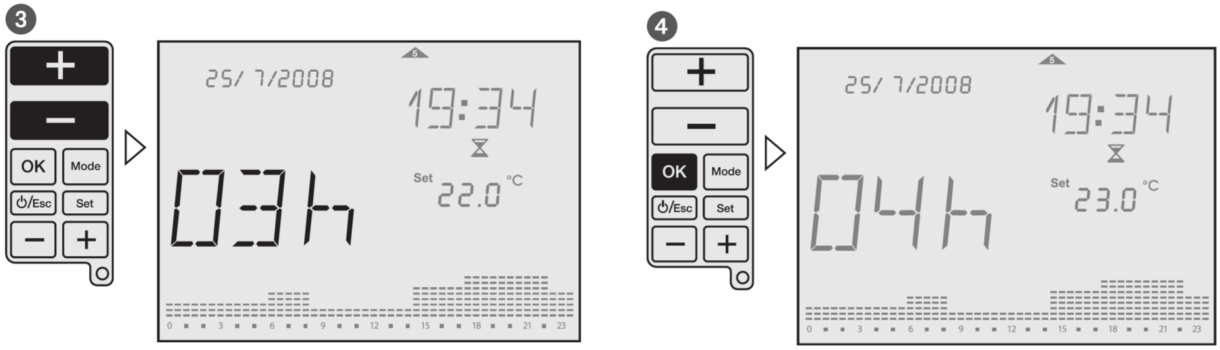
Countdown mode

Symbol: ⧗

This function runs into a desired set temperature during certain period of time. Adjustable period of time is 1 – 23 hours. After the time is elapsed, the device returns into OFF mode (Anti-freeze temperature is kept). During the Countdown mode, remaining countdown time is indicated.
Example: The device shall be run into OFF mode after 4 hours.

ⓘ

To end Countdown mode early, press ESC-button for more than 3 seconds.



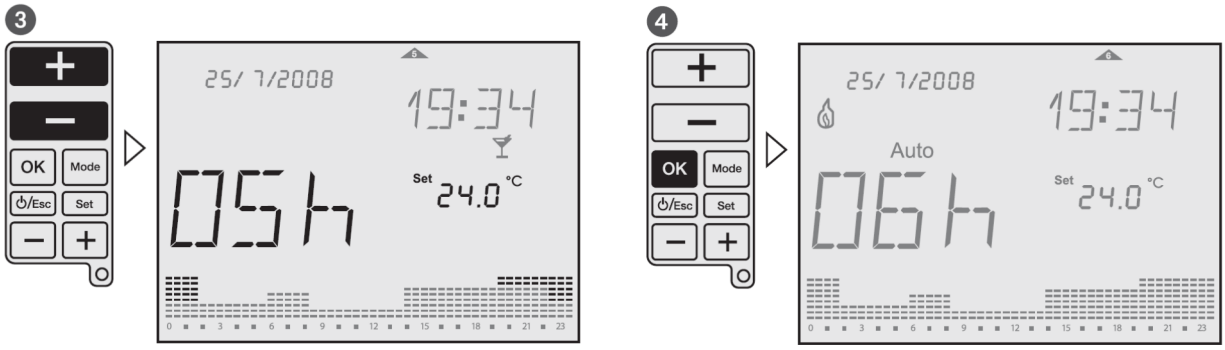
Party mode

Symbol: 🍸

This mode allows the user to set a desired temperature during defined period of time. Adjustable period of time is 1 – 23 hours. After the time is elapsed, the device returns into the mode before the Party mode was activated. During the Party mode, the rest of the time is indicated.
Example: The temperature shall be set for 6 hours on 24°C.

ⓘ

To end Party mode early, press ESC-button for more than 3 seconds.

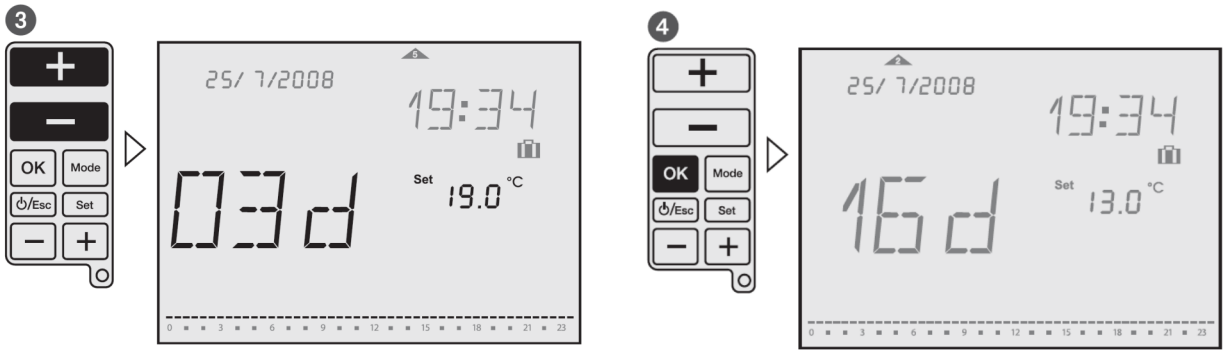


Holiday mode

Symbol:

This function runs into a desired set temperature during certain period of time. Adjustable period of time is 1 – 90 days. After the time is elapsed, the device returns into the mode before the Holiday mode was activated. During the Holiday mode, the rest of the days is indicated.
Example: The temperature shall be set for 16 days on 13°C.

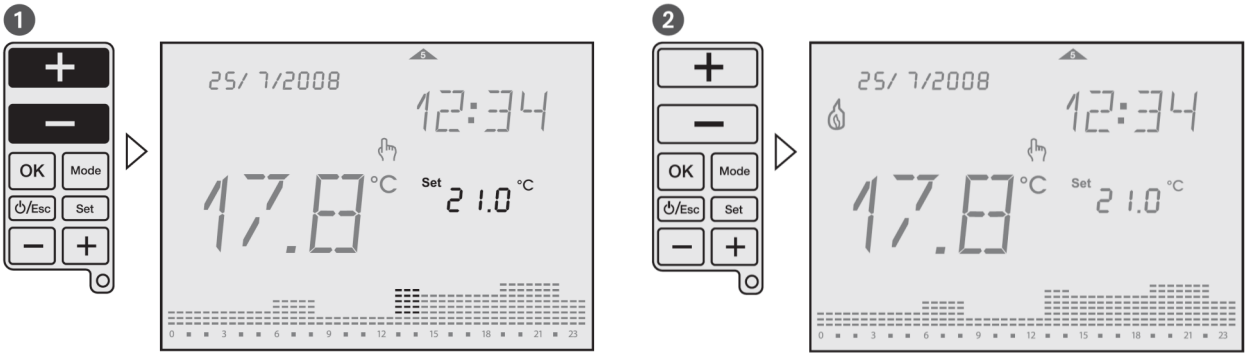
To end Holiday mode early, press ESC-button for more than 3 seconds.



Operating status
Manual override

Symbol:

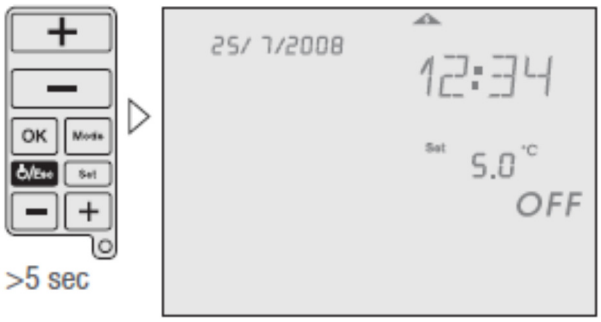
While the sliding cover is closed, you can temporarily adjust the temperature in the current period with the upper +/– buttons. It is not necessary to confirm the setting with OK. The setting will remain as temperature set value until the next programmed change (time and temperature) appears.
To return into Auto mode, press and hold upper +/– buttons for 3 seconds, or open the sliding cover and press OK-button.



OFF mode

Symbol: OFF

This mode switch off the device completely. To activate this mode press and hold ON/OFF/ESC-button for more than 5 seconds. To leave this mode press and hold the ON/OFF/ESC-button again for more than 5 seconds.

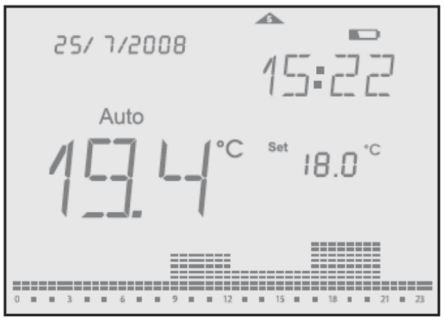


The anti-freeze protection is granted.

Low battery

Symbol:

A low battery level is indicated with the battery icon in the display. Please change the batteries. If batteries are not placed or are installed in the wrong polarity, <Bat> text will appears on display until they are placed or installed in the right polarity.



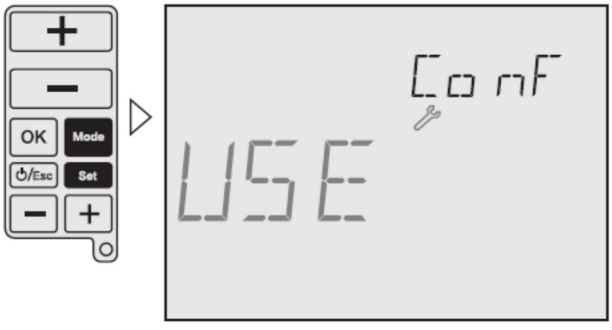
If the battery goes completely empty, the programming is protected.

User menu/Configuration

Symbol:

Press the MODE-button and SET-button at the same time until User menu is shown in the display.
To go to previous menu press ESC-button. It is possible to adjust:

- RF commissioning (RFC): Enable/disable continuous radio signal
- Offset (OFS): Possibility to adjust/modify the measured temperature (-5°C...+5°C)
- Summer/Winter time (SWT): enable/disable automatic summer/winter time change
- Time Format (TMF): possibility to change time format into 24 hours or 12 hours (default: 24 hours)
- Restore Default (DFL): Restore values to factory default status.



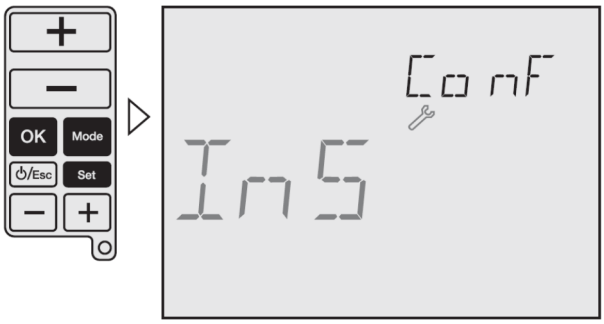
Use lower +/– buttons to navigate through menus.
Use upper +/– buttons to change values and OK to confirm.

Installation menu

Symbol:

To access this Configuration menu, press the MODE-button, the OK-button and SET-button at the same time until Installer menu is shown in the display. Press ESC-button to go to previous Menu.

The adjustments in this menu are only for experts.
All possibilities for adjustment are shown with a self-explaining, floating real text in the display.
Use lower +/– buttons to navigate through menus.
Use upper +/– buttons to change values and OK to confirm.



Following adjustments are possible:

High Temp (HIT):	set maximum temperature value for programming from low temperature value up to +32°C (default: +32°C)
Low Temp (LOT):	set minimum temperature value for programming from +7°C up to high temperature value (default: +15°C)
Frost protection (FRT):	set anti-freeze minimum temperature value from +3°C to +7°C (default: 5°C)
Regulation (REG):	possibility to select between PID or 2 points regulation (default: PID)
Differential (DIF):	possibility to modify differential value from 0,1 K to 0,9 K (default: 0,4 K)
Keypad Lock (LOK):	enable keypad to protect against non authorized interventions To enable/disable the keypad lock press and hold MODE- and ESC-button for more than 3 seconds.
Operating hours (OPT):	this feature shows total operating running time (max. 99.999 hours)
Battery Level (BAT):	battery charge level is shown on display

Warranty

This control is guaranteed against manufacturing defect for a period of 12 months from the date of installation.
This Guarantee does not cover replacement of batteries or cosmetic damage to the controller.

ErP Regulation

Regulation EU 811/2013, supplementing
Ecodesign and Energy Labelling Directive 2010/30 EU:

This thermostatic control device is rated **Class IV**
Correction factor (contribution to system energy efficiency) **2%**

Notes:

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