Mounting Instructions and Commissioning
for Qualified Electrician

Radio room temperature sensor with clock
1186 ..

GIRA

08/05

Table of contents

On these instructions

The following symbols and marks are used in these instructions:

1. Action instructions are numbered consecutively.

✓ Results of actions are identified by this check mark.

• Enumerations are identified by this point.

Note!

Information on the economical use of the radio room temperature sensor is identified by this sign.

Attention

Information on facts which can lead to damage to persons or the device are identified by this sign.

Operation with radio controller

Information on altered behaviour of the radio room temperature sensor when operating with the radio controller.

Method of functioning

The radio room temperature sensor is an electronic control device with an integrated clock for temperature and/or time-controlled single-room control in residential or office buildings. The integrated radio transmitter provides information on the current room temperature, the setpoint temperature and the temperature level currently used to the radio controller or directly to motor valve drives.

The temperature is measured via an integrated detector.

Installation and safety instructions

Attention

Installation and mounting of electrical devices may only be carried out by a qualified electrician.

The radio room temperature sensor is conceived for flush-type mounting. It consists of two units:

- The flush-mounted insert which contains the power electronics, the radio transmitter and the connections (for flush-mounting box)
- The controller top unit with the operating elements which is attached to the flush-mounted unit.

Attention

Errors during connecting can lead to damage to the controlling device! No liability is accepted for damage caused by incorrect connection and/or improper handling!

- Before working on the radio room temperature sensor, de-energize the device and secure it against restarting!
- Only connect the radio room temperature sensor to fixed wiring in closed dry rooms.
- Ensure that lines with supply voltage (mains connection) do not come into contact with low-voltage lines, such as sensor lines (minimum distance 4 mm at basic-insulated lines).
- If the radio room temperature sensor does not function after mounting, first check that the connection is correct as well as the power supply.

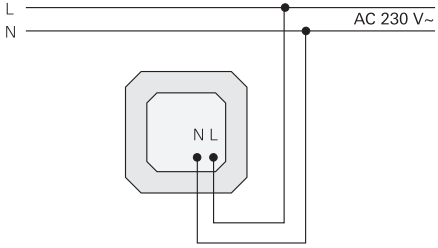
Mounting

The radio room temperature sensor is mounted in flush-mounted boxes. Please observe the following points for optimal operation:

- We recommend an optimum mounting height of 1.50 m.
- Do not subject the radio room temperature sensor to direct sun irradiation or use it in the area of draughts or other temperature-influenced air (such as over electric cookers, refrigerators, etc. or in the area of direct radiation heat of radiators), since the control behaviour can be influenced by heat.
- Do not use the radio room temperature sensor in a physical unit with other electrical devices, such as dimmers, since a possible heat development could influence the radio room temperature sensor.

Electrical connection

Connect the supply voltage (230 V, 50 Hz) to the terminals L and N.



Improper use

The top unit of the radio room temperature sensor is protected against unintentional placing on the flush-mounted unit of a Gira blind control system. When used incorrectly the radio room temperature sensor displays the text **FAIL** flashing.

Teaching-in radio connection – LErn menu item

To assign radio motor valve drive(s) or a radio controller to the radio room temperature sensor, proceed as follows:

1. In normal display press the PROG button at least 5 seconds in order to access the program menu.
2. Press the + or − button in order return to the **LErn** menu item.
3. Start the programming mode on all devices to be taught in.
   See the operating instructions of the radio receiver

4. Press the SET button on the radio room temperature sensor to start the teach-in process.

✓ During the teach-in process the **LErn** display flashes.

✓ After approx. 5 seconds the radio room temperature sensor returns directly to the normal display.

Teaching in several radio motor valve drives

If a radio room temperature sensor is to be assigned several radio motor valve drives, first all valve drives must be switched into the teach mode before that teach-in process is started on the radio room temperature sensor.

Deleting radio connection

The radio connection is deleted either

- on the radio motor valve drive (see operating instructions of radio motor valve drive) or
- by teaching in the radio connection again.

Start-up (basic setting)

Important information on changes in the parameter menu

Changes in this menu should only be carried out by qualified persons since incorrect settings may result in proper control operation no longer being possible.

The parameters required for commissioning can be defined in the parameter menu.
The factory settings are preset to values which ensure proper operation even without adaptations in the parameter menu.

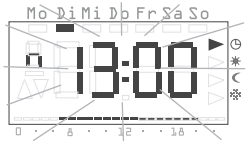
In order to change to the parameter menu:

1. Keep the SET and PROG buttons pressed simultaneously for longer than 5 seconds in the normal display.

The following parameters can be set or read:

n (normal)	Normal display (time, setpoint temperature, actual temperature)
b (operation)	Convection heater, heating circuit distributor or radio controller operating mode
o (offset)	Sensor offset in order to compensate constructional influences
E (early)	Heating optimisation
r (ramp)	Gradient of the heating optimisation in minutes per Kelvin
S (summertime)	Specification of the summertime regulation (Central Europe/GB)
U (clock)	Correction value for accuracy in seconds per day
-	Software version

To improve clarity the respective character listed above is displayed in the top left of the display. The corresponding value is displayed on the right in the four large numerals.



The respective parameter is opened for modification when the SET button is pressed. The parameter value is displayed flashing.

When a parameter has been modified and confirmed with SET, the parameter menu changes automatically to the next parameter.

The PROG button can be used at any time to return to the normal time program.

Modifications in the parameter menu

Modifications in the parameter menu are implemented immediately! The parameter is regarded as modified, irrespective of whether the menu is exited with SET or PROG or whether the system returns automatically to the normal display after 1 minute.

Normal display (n)

This parameter is used to select the normal display of the radio room temperature sensor. This information is always displayed on the display whenever no menu has been selected and no holiday settings are active.

1. The + and − buttons can be used to change to one of the operating modes listed below.
2. SET activates it.

Normal display	Display
Current time of day	**Uhr (Clock) ***
Current setpoint temperature	**SOLL**
Current actual temperature	**Ist**

* Factory setting

Normal display with other function

During operation with the radio controller, the set value is permanently displayed with activated setpoint offset of the set value, regardless of the selected normal display. As soon as the setpoint offset is cancelled, the selected normal display appears again.

Operating mode (b)

This parameter allows individual selection of the function for the radio room temperature sensor. This defines the frequency of the radio transmission (convection heater, floor heating, radio controller).

1. The + and − buttons can be used to change to one of the operating modes listed below.
2. SET activates it.

Application	Display
Convectors, conventional transmission interval 10 minutes	10' *
Heating circuit distributors, floor heating transmission interval 3 minutes	3'
Operation with radio controller, transmission interval 10 minutes (for convection heater)	F10'
Operation with radio controller, transmission interval 3 minutes (for floor heating)	F3'

* Factory setting

Sensor offset (o)

The measured actual temperature can be displaced by ±3.0 Kelvin by means of this parameter. This correction can be used to compensate the measuring deviations which arise though the unfavourable placing of the radio room temperature sensor.

1. The + and − buttons can be used to set the parameter.
2. SET saves the parameter.

The sensor offset is set to 0.0 Kelvin in our works.

Heating optimisation (E)

Function inactive

During operation with the radio controller, the heating optimisation is inactive, as the radio controller specifies the course of the setpoint temperature curve over time.

Only for room heating

The heating optimisation function is only suitable for room heating. This function cannot be used for additional heaters.

The heating optimisation determines the temporal behaviour of the room on the basis of the past heating processes and calculates the required derivative action time which is necessary in order to reach the desired setpoint temperature on time.

The automatic heating optimization can be activated (**On**) and deactivated (**OFF**) here. If the heating optimisation is deactivated, switching is carried out exactly as specified in the time program.

1. The + button can be used to set the heating optimisation to **On** and the − button to **OFF**.
2. SET saves the setting.

The heating optimisation is activated (**On**) in our works

Gradient for heating optimisation (r)

The current gradient which is used to calculate the derivative action time can be checked under this menu item. The time required to heat the room by one Kelvin (1K) is displayed here in minutes.

If the heat optimisation is activated, this gradient is always recalculated during a transition from a lowering phase to a comfort phase.

The heating optimisation is set to a gradient of 15 minutes per Kelvin [min/K] at our factory.

Summertime regulation (S)

Here the sommertime regulation can be selected with which the switch-over time for summertime is calculated. The radio room temperature sensor differentiates between Central Europe and Great Britain.

If the summertime function is deactivated (OFF), an automatic changeover of the time is not carried out. Note that the time has to be changed over manually in this case.

1. The + and − buttons can be used to change to one of the operating modes listed below.
2. SET activates it.

Regulation for	Summertime beginning	Summertime end	Display
Central Europe	Last Sunday in March from 2:00 h to 3:00 h	Last Sunday in October from 3:00 h to 2:00 h	**EUr***
Great Britain	Last Sunday in March from 2:00 h to 3:00 h	Fourth Sunday in October from 3:00 h to 2:00 h	**Gb**
Off	---	---	**OFF**

* Factory setting

Accuracy (U)

Here a correction value is entered at the factory, which ensures the greatest possible precision of the clock function.

The value represents the correction amount in seconds per day [s/d] and cannot be changed.

Software version (-)

The currently installed software version can be interrogated here.

> Specifying software version
>
> When reporting technical problems, always specify the version of the software installed in the controlling device.

Resetting all the settings (Reset)

You can delete all the parameter settings and programming and reset the device to the standard factory values:

1. Keep the + and − buttons pressed simultaneously for longer than 10 seconds in the normal display.

✓ The controlling device then carries out its display test and begins the clock setting for repeated commissioning.

Technical data

Temperature ranges:	+ 18 to + 30 °C	(comfort temperature)
	+ 10 to + 22 °C	(comfort and lowering temperature)
	+ 5 to + 15 °C	(frost protection temperature)
	+ 10 to + 30 °C	(individual temperature)
	- 3 to + 3 K	(setpoint offset during operation with radio controller)
	Increment 0.5 K each	
Sensor:	Internal semiconductor sensor (KTY)	
Other settings:	Menu navigation with four buttons	
Time function:	Electronic time delay switch with week program, automatic summertime/normal time changeover	
Program slots:	32, can be freely distributed across the week, increment 10 minutes	
Power reserve:	at least 4 hours via Gold Cap (capacitor, no battery)	
Operating voltage:	230 V AC, 50 Hz	
Power consumption:	approx. 4 VA	
Transmission frequency:	433.42 MHz	
Electrical connections:	Screw terminals with slotted screws	
Operating principle as per EN 60730-1:	1.C (no limiter operating principle)	
Impulse withstand level:	4.0 kV	
Pollution severity:	2	
Permissible ambient t emperature:	0 to + 50 °C	
Protection type:	IP 30	
Protection class:	II (if mounted properly)	
Weight:	Approx.180 g	

Information on radio operation

Radio transmission occurs on a non-exclusive transmission path, and interference cannot be excluded for this reason.

The radio transmission is thus not suitable for security purposes, e.g. Emergency Stop, emergency call.

The transmission range of a radio transmitter (max. 100 m in free field) is dependent on the structural conditions of the building:

Dry material	Penetration
Wood, plaster, sheetrock	approx. 90 %
Brick, pressboard	approx. 70 %
Reinforced concrete	approx. 30 %
Metal, metal screens, aluminium cladding	approx. 10 %

Radio transmission

- The connection of this radio system to other communication networks is only permissible within the scope of national laws.
- This radio system may not be used for communication across property borders.
- During operation in Germany, the information from the "Allgemeinzuteilung im Amtsblatt Vfg 73/2000" must also be observed.
- When used properly, this device complies with the requirements of the R&TTE Directive (1999/5/EC). A complete declaration of conformity is available on the Internet at: www.gira.de/konformitaet.

The radio room temperature sensor may be operated in all EU and EFTA countries.

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault.

Gira
Giersiepen GmbH & Co. KG
Service Center
Dahlienstraße 12
42477 Radevormwald, Germany

CE The CE sign is a free-trade mark intended solely for state authorities and does not contain any assurance of properties.

Gira
Giersiepen GmbH & Co. KG
Postfach 1220
42461 Radevormwald, Germany
Tel.: 02195 / 602 - 0
Fax: 02195 / 602 - 339
Internet: www.gira.de

Operating Instructions

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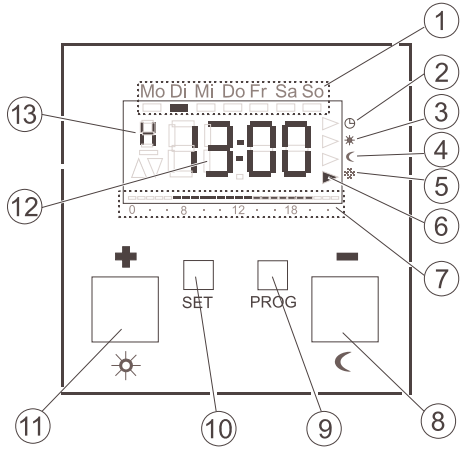
How the radio room temperature sensor functions

Your radio room temperature sensor functions similarly to a time delay switch – at specific times which can be set, your heating system is regulated by the radio room temperature sensor to three temperatures which can be set.

- The **comfort temperature** is usually used for the daytime, put more precisely for the periods when you are present.
- The **lowering temperature** is usually used for the night. It is also called the economy temperature.
- The **anti-freeze temperature** is usually used for longer periods of absence (e.g. holidays). The temperature is just high enough to protect the heating system against freezing.



Basic operation of the radio room temperature sensor

The + and − buttons are used to set the values such as the time or the temperature.

The SET button is used to confirm the set values.

If you do not press the SET button after carrying out a setting, the display changes automatically back to the normal display 1 minute after a button has been pressed. Changes to the respective values are not accepted in this case.

The PROG button can be used at any time to return to the normal time program.

The individual displays and buttons

(1) The current weekday is displayed here.

(2) Symbol for the "Time program" operating mode.

(3) Symbol for the "Comfort temperature" operating mode.

(4) Symbol for the "Lowering temperature" operating mode.

(5) Symbol for the "Anti-freeze temperature" operating mode.

(6) The respective current operating mode is indicated here by means of triangles.

(7) The ranges set for the comfort temperature in the time program are displayed here.

(8) − or ☾ button, also called the economy button.

(9) PROG. button

(10) SET. button

(11) + or ✲ button, also called the party button.

(12) The time is displayed here.
You can have this display changed by the installer to, for example, the temperature display.

(13) Further information on the settings which you carry out is displayed here: e.g. **H** if you set the time.

Starting up the radio room temperature sensor

When the radio room temperature sensor is switched on for the first time, as well as after long deactivation periods, e.g. after a power failure, the radio room temperature sensor jumps automatically to the time input – the current data **must** be entered here.
(You can edit these data later --> for details, please refer to „Setting the date and time – Uhr (Clock) menu item" on Page 7).

✓ The hour display flashes

1. Press the + or − button until the desired hour has been set.

Time format

You can have the time displayed in international 24 hour format (0H...23H) or in the English-speaking a.m. (12AM...11AM) and p.m. format (12PM...11PM). When you set the clock, the display begins with the 24-hour format, followed by the AM/PM format. Depending on the hour format which you confirm with SET, the time is displayed in future in 24-hour format or in AM/PM format.

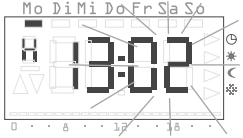
2. Press the SET button.

✓ The hour is set and the minute display flashes.

3. You now have to enter all the further data in the same manner:
   - Minutes
   - Calendar year
   - Month
   - Day

4. Confirm each entry with the SET button.

✓ After the last confirmation with SET, the system returns automatically to the normal display.



Prolonging the heating phase (party function)

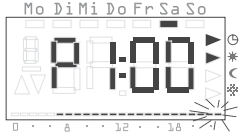
If necessary, you can extend or activate the comfort temperature – the so-called party function. This extension applies only once. After the extension has expired, the set time program is executed as usual.

Note!

You can extend or activate the heating phase by up to four hours. In addition, you can also repeat this extension as often as desired.

1. Press the ❄ button.

✓ The comfort temperature is extended by 1 hour each time the button is pressed, and counting begins from the time the button is pressed.
The period for which the party function is set flashes at the lower edge of the display.



✓ The display returns to the normal display when no button is pressed for a few seconds.
The period for which the party function is set flashes at the lower display margin.

Terminating the party function

You can terminate the party function as follows:

1. Press the PROG button in order to terminate the party function.

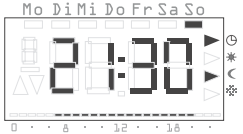
✓ The radio room temperature sensor returns to the normal time program.

Changing over to the lowering temperature (economy button)

You can change over to the lowering temperature for brief or long-term periods of absence by means of the economy button.

Switching for brief periods to the lowering temperature

1. Press the ☾ button for less than 5 seconds.



✓ The radio room temperature sensor switches over to the lowering temperature. The Lowering temperature mode is displayed.

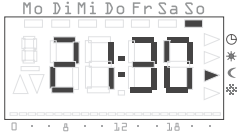
The changeover is retained until the next switching time in the time program.

Tip on lowering temperature

Use this function during ventilation. Change back to the time program again after ventilation by pressing the PROG button.

Switching for longer periods to the lowering temperature

1. Press the ☾ button for longer than 5 seconds.



✓ The radio room temperature sensor **permanently** switches over to the lowering temperature.
The Lowering temperature mode is displayed, the time program is no longer displayed.

This switchover is retained until you switch off the lowering temperature again.

Deactivating the lowering temperature

You can deactivate the lowering temperature at any time:

1. Press the PROG button in order to deactivate the lowering temperature.

✓ The radio room temperature sensor returns to the normal time program.

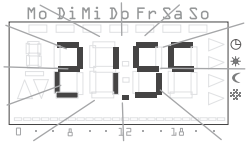
Setting the individual temperature

Setpoint offset

During operation with the radio controller, a setpoint offset by ± 3 K is carried out via this menu item.

You can set an individual temperature if the currently set temperature of the time program does not appear to be suitable.

1. Press the SET button.



✓ The currently set individual temperature is displayed flashing.

2. Press the + or − button in order to set the individual temperature.
3. Press the SET button in order to confirm the set individual temperature.

✓ The radio room temperature sensor returns to the normal display and regulates the set individual temperature until the next switching time in the time program. As long as the individual temperature is used as the setpoint input, no operating mode (Comfort, Lowering, Anti-freeze) is displayed, since none of the temperatures stored there is valid.

Note

If the SET button is not pressed, the display returns to the normal display again after 5 seconds. Any changes to the setpoint temperature are not accepted in this case.

Deactivating the individual temperature

You can deactivate the individual temperature at any time:

1. Press the PROG button in order to deactivate the individual temperature.

✓ The radio room temperature sensor returns to the normal time program.

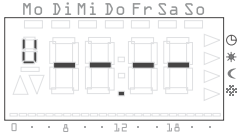
Locking buttons

To prevent an accidental or unauthorised operation of the radio room temperature sensor, you can activate the button locking function in the normal view.

Activating button locking function

1. Press the SET and − buttons for longer than 5 seconds.

✓ When the button locking function is active, "-- --" appears in the display each time a button is pressed to signal that the desired operation has been denied.



Deactivating button locking function

1. Press the SET and − buttons for longer than 5 seconds.

✓ During unlocking "-- --" appears in the display for 5 seconds. When the button locking function is deactivated, the normal display appears again and the buttons can be released.

Settings in the program menu

You can change the following settings in the program menu:

- Date and time (**Uhr (Clock)** menu item)
- Temperature steps (**tEmP** menu item)*
- Time program (**ProG** menu item)*
- Holiday function (**UrLb** menu item)*
- Anti-freeze function (**FrSt** menu item)*
- Teaching-in radio connection (**LErn** menu item)

*Menu item deactivated during operation with the radio controller.

How to access the menu items in the program menu

Irrespective of the setting you want to change you always access the desired menu item in the program menu as follows:

1. In normal display press the PROG button at least 5 seconds in order to access the program menu.
2. Press the + or − button in order to access the desired menu item. The adjacent example shows the first menu item, the time.
3. Press the SET button in order to select the desired menu item.

Setting the date and time – Uhr (Clock) menu item

You can modify the date and time at any time.

Note!

The clock is designed as a week time switch and continues to operate for least a four -hours in the case of a power failure.
The changeover between summer and winter time is carried out automatically.
The integrated calendar automatically takes leap years into account.

To set the date and time:

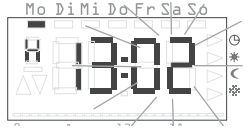
1. Go in the program menu to the **Uhr (Clock)** menu item (see above).

✓ The hour display flashes.

2. Press the + or − button until the desired hour has been set.

> **Time format**
>
> You can have the time displayed in international 24 hour format or in the American format (AM/PM). Details are provided on Page 5.

3. Press the SET button.



✓ The hour is set and the minute display flashes.

4. Use the same method to carry out the further settings. These are:
   - Minutes – the time is set after confirmation with the SET button
   - Calendar year
   - Month
   - Day

> **Date does not have to be set!**
>
> If the date is already set correctly, you can exit the setting here by pressing the PROG button.

5. Confirm each entry with the SET button.

✓ After the last confirmation with SET, the system returns automatically to the program menu.

6. Press the PROG button in order to return to the normal view.

Modifying the temperature steps – tEMP menu item

> **Function deactivated**
>
> During operation with the radio controller, this function is deactivated. The setpoint temperature specification is carried out centrally on the radio controller.

You can modify the following temperature steps in the **tEMP** menu item.

- Comfort temperature (default setting 21.0 °C)
- Lowering temperature (default setting 18.0 °C)
- Anti-freeze temperature (default setting 10.0 °C)

> **Checking the anti-freeze temperature**
>
> The anti-freeze temperature can be checked and set in the "Anti-freeze function" menu item. A change in the anti-freeze temperature in one of the menu items has a direct effect on the respective other menu item. Only one anti-freeze temperature is valid in the radio room temperature sensor.

To change the temperature steps:

1. Go in the program menu to the **tEMP** menu item (see Page 7).

✓ The temperature setting of the comfort temperature is displayed flashing. In addition the operating mode is displayed at the right-hand display margin.

2. Press the + or − button in order to set the desired temperature.
3. Confirm with the SET button.

✓ The display changes automatically to the next temperature step, the lowering temperature.

4. Use the same procedure to set the lowering and the anti-freeze temperature.

✓ After the last confirmation with SET, the system returns automatically to the program menu.

5. Press the PROG button in order to return to the normal view.

Aborting modifications to the temperature steps

1. Press the PROG button in order to abort setting the temperature steps.

✓ You return automatically to the program menu. The temperature step which you have opened last for editing is not saved.

2. Press the PROG button in order to return to the normal view.

Modifying the time program – ProG menu item

Function deactivated

During operation with the radio controller, this function is deactivated. The time programs are managed centrally by the radio controller.

You can change the switching times of your radio room temperature sensor in the **ProG** menu item. 32 switching times are available. Each switching time specifies a point within a week at which a change between the comfort and lowering temperature takes place. You can change the switching times in steps of 10 minutes.

The following time program is programmed at the factory.

Weekdays	**Period**
Monday - Friday	6:00 -22:00 comfort temperature
Saturday, Sunday	6:00 -23:00 comfort temperature

These settings can be modified or extended as desired.

Viewing the switching times

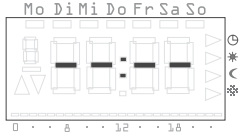
1. Go in the program menu to the **ProG** menu item (see Page 7).

✓ The first switching time is displayed.

2. Press the + or − button in order to view the further switching times.

✓ The switching times are displayed chronologically, beginning at Monday 0.00 hours, rising to Sunday 23.50.

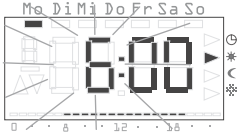
✓ An empty switching time is offered at the end of the list if at least one switching time is still available.



Modifying the switching time

1. Go in the program menu to the **ProG** menu item (see Page 7).
2. Press the + or − button in order to access the desired switching time.
3. Press the SET button for the switching time to be changed.

✓ The switching time is opened for editing, the hour display flashes.



4. Press the + or − button in order to modify the hour display.
5. Confirm with the SET button.
6. Use the same method to carry out the further settings. These are:
   - Minutes
   - Day – here the weekdays are initially displayed from Mo-Su, then the groupings Sa-Su, Mo-Fr, Mo-Sa and Mo-Su.
   - Comfort or lowering temperature

Grouping days

If a grouping of days is selected, a separate program point with the specified time and the temperature step is created for each selected day of the group.
Renewed editing of the entire grouping is not possible - only the individual program items can be edited. It may therefore be practical in individual cases to delete all switching times and then enter a new grouping of days.

7. Confirm respectively with the SET button.

✓ After the last confirmation with SET the modified switching time is saved and the chronologically next switching time is displayed.

Deleting the switching time

1. Go in the program menu to the **ProG** menu item (see Page 7).
2. Press the + or − button in order to access the desired switching time.
3. Press the + and − buttons for longer than 5 seconds.

✓ The switching time is deleted irrevocably and the chronologically next switching time is displayed.

Delete all switching times

With this function you can delete all stored switching times. This can, for example, be practical when a complete changeover of the time program is to be carried out and the deleting of individual program points is too time-consuming.

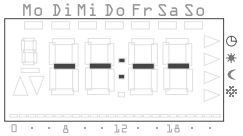
1. Go in the program menu to the **ProG** menu item (see Page 7).
2. Select any desired switching time with the + or − button.
3. Press the + and − buttons for longer than 10 seconds.

✓ All switching times are deleted irreversibly and a blank program point appears with the display "--:--".

Note

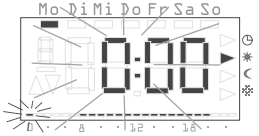
During this procedure the factory-programmed switching times are also deleted. These times can be restored via the Reset function.

Inserting a new switching time



1. Go in the program menu to the **ProG** menu item (see Page 7).
2. Press the + or − button in order to access the empty switching time.
3. Confirm with the SET button.

You can now carry out all the settings for a new switching time:



✓ The new switching time is opened for editing, the hour display flashes.

4. Press the + or − button in order to modify the hour display.
5. Confirm with the SET button.
6. Use the same method to carry out the further settings. These are:
   - Minutes
   - Day – here the weekdays are initially displayed from Mo-Su, then the groupings Sa-Su, Mo-Fr, Mo-Sa, Mo-Su.
   - Comfort or lowering temperature

Grouping days

If you select a grouping of days, a separate switching time with the specified time and the temperature step is created for each selected day of the group.
Renewed editing of the entire grouping is not possible - only the individual switching times can be edited. For this reason, it may be practical in individual cases to delete all switching times and then enter a new grouping of days.

7. Confirm respectively with the SET button.

✓ After the last confirmation with SET the modified switching time is saved and the chronologically next switching time is displayed.

Aborting the settings at the time program

You can **abort** the modifications at the time program if no switching time is opened for processing.

1. To do so, press the PROG button.

✓ You return automatically to the program menu. The currently active switching time which was displayed for setting is not saved.

2. Press the PROG button in order to return to the normal view.

Further information on programming switching times

- If all switching times are assigned, no empty switching time will be offered.
- If a group of days is programmed and insufficient switching times are free, **FULL** is output and the number of free switching times is displayed. You then have to decide whether you want to remove enough switching times or whether you want to implement the desired program by using individual days.
- If a group of days covers an existing switching time, the existing switching time is overwritten without any query.
- If a switching time is placed on the moment of an existing switching time, the existing switching time is overwritten without any query.
- If an existing switching time is modified and placed on a moment which is already occupied by an existing switching time, the existing switching time is overwritten without any query.
- Redundant switching times (switching times in time program which do not cause a change in the temperature step) are not recognized or removed automatically. You must search for switching times of this kind and remove them yourself if further switching times are required.

Setting the holiday program – UrLb menu item

Function deactivated

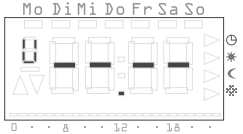
During operation with the radio controller, this function is deactivated. The holiday programs are managed centrally by the radio controller.

A holiday program is available in the **UrLb** menu item. You set the starting date and end date of your absence here. During this period the system regulates to a constant selectable temperature step. After the holiday period has expired the holiday program is deleted automatically so that it is not repeated every year.

Setting the holiday period

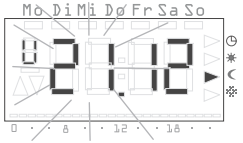
1. Go in the program menu to the **UrLb** menu item (see Page 7).

✓ When the **UrLb** menu item is entered, the display "--.--" appears if no holiday period has been defined yet.



2. Press the SET button in order to set a holiday period.

✓ The current date is entered automatically as the holiday beginning.
You can edit this date:



✓ The month is displayed flashing.

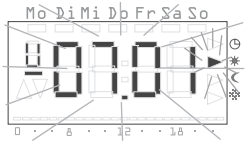
3. Press the + or − button in order to set the month.
4. Confirm with the SET button.

✓ The day begins to flash.

5. Press the + or − button in order to set the day.
6. Press the SET button again.

✓ The display changes to the holiday end.

✓ The month is displayed flashing.



7. Use the same procedure to set the holiday end (month and day).
8. Confirm each entry with the SET button.

✓ The operating mode is displayed flashing.

9. Press the + or − button to select the desired temperature step (Comfort, Lowering and Anti-Freeze) to be maintained during the holiday.
10. Confirm with the SET button.

✓ After the last confirmation with SET, the system returns automatically to the program menu.

11. Press the PROG button and the radio room temperature sensor returns to the normal view.

✓ As soon as the internal date reaches the first holiday day at 0:00 hours, the temperature step is changed.
The view in the display changes and displays the holiday end date.

Recommendation for holiday function

At low outside temperatures and longer periods of absence, you should have the holiday function end one day before the planned end of the holiday so that your flat is sufficiently pre-heated.

Deleting the holiday period

1. Go to the **UrLb** menu item.
2. Keep the + and − button pressed for more than 3 seconds in order to delete a specified holiday period completely.

✓ The radio room temperature sensor changes to the Program menu.

3. Press the PROG button and the radio room temperature sensor returns to the normal view.

Activating/deactivating the anti-freeze function – FrSt menu item

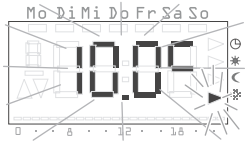
Function deactivated

During operation with the radio controller, this function is deactivated. The anti-freeze function is managed centrally by the radio controller.

You can only permanently activate the anti-freeze function here.

Anti-freeze temperature

The anti-freeze function can only be set in operation between +5 °C and +15 °C.



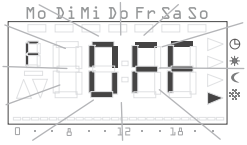
1. Go in the program menu to the **FrSt** menu item (see Page 7).

✓ The set anti-freeze temperature is displayed flashing. In addition the corresponding operating mode is displayed flashing at the right-hand display margin.

2. Press the + or − button in order to select the desired anti-freeze temperature.
3. Confirm with the SET button.

Modifying the anti-freeze temperature

A modification of the anti-freeze temperature also acts on the anti-freeze temperature set under "Modifying temperature steps" (refer to Page 8).



✓ **On** or **OFF** is displayed.

4. Press the + button in order to activate the anti-freeze function (**On**) or the − button in order to deactivate the anti-freeze function (**OFF**).
5. Press the SET button.

✓ The anti-freeze function is activated or deactivated and the display return to the program menu.

6. Press the PROG button and the radio room temperature sensor returns to the normal view.

✓ After the anti-freeze function has been deactivated, the room temperature controller returns to continuous Lowering mode.

Proceed as follows in order to return to the normal time program:

1. In normal display press the PROG button at least 5 seconds in order to access the program menu.
2. Press the + or − button in order return to the **ProG** menu item.
3. Press the SET button in order to select the **ProG** menu item.
4. Press the PROG button in order to activate the normal time program again.

Teaching-in radio connection – LErn menu item

To assign radio motor valve drive(s) or a radio controller to the radio room temperature sensor, proceed as follows:

1. Go in the program menu to the **LErn** menu item (see Page 7).
2. Start the programming mode on all devices to the taught in.
3. Press the SET button on the radio room temperature sensor to start the teach-in process.

✓ During the teach-in process the **LErn** display flashes.

✓ After approx. 5 seconds the radio room temperature sensor returns directly to the normal display.

Teaching in several radio motor valve drives

If the radio room temperature sensor is to be assigned several radio motor valve drives, first all valve drives must be switched into the teach mode before that teach-in process is started on the radio room temperature sensor.

Deleting radio connection

The radio connection is deleted either

- on the radio motor valve drive (see operating instructions of radio motor valve drive) or
- by teaching in the radio connection again.

Cleaning radio room temperature sensor

1. Use only a spray-moistened cloth to wipe the housing of the radio room temperature sensor.
2. Do not use any cleaning agents, since these may damage the housing.