

Operating Instructions Center plate for Timer Thermostat/ Insert

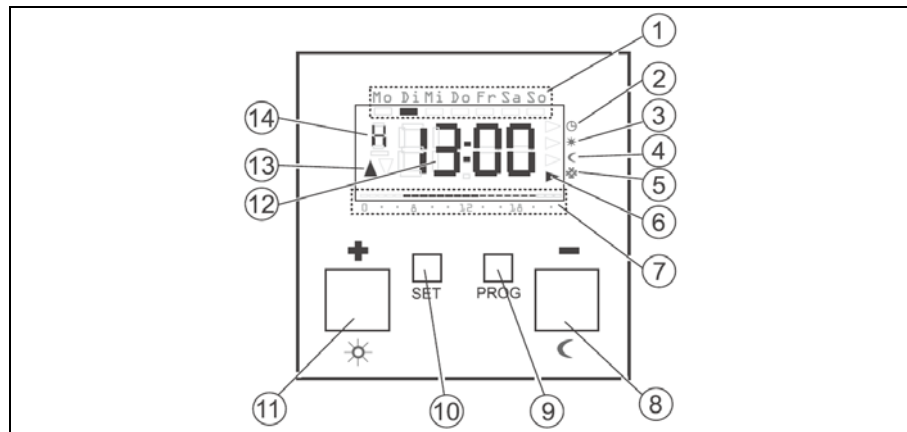


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How the Timer Thermostat functions

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

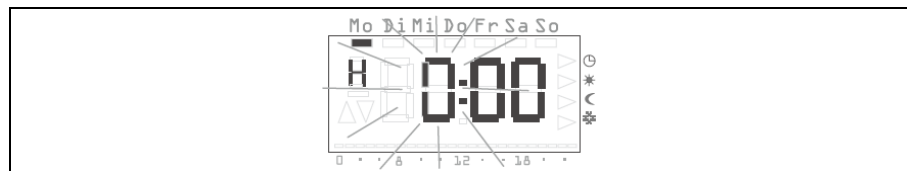
- The comfort temperature is usually used for the daytime, put more precisely for the periods when you are present.
- The lowering temperature is usually used for the night. It is also called the economy temperature.
- The anti-freeze temperature is usually used for longer periods of absence (e.g. holidays).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



1. Starting up the Timer Thermostat

When the Timer Thermostat is switched on for the first time as well as after long deactivation periods, e.g. after a mains failure, the Timer Thermostat jumps automatically to the time input - the current data has to be entered here.

(you can edit these data later --> for further information please refer to "Setting the date and time – Uhr menu item" on Page 7).



The hour display flashes

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

① 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 S, the time is displayed in future in 24- hour format or in AM/PM format.

- Press the S button.

The hour is set and the minute display flashes.

- You now have to enter all the further data in the same manner:
 - Minutes
 - Calendar year
 - Month
 - Day
- Confirm each entry with the „**SET**“ button.

After the last confirmation with „**SET**“ the system returns automatically to the normal display.

1.1. 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.

① Note!

You can extend or activate the heating phase by up to four hours. This extension can furthermore be repeated as often as wished.

- Press the „☀“ button.

The comfort temperature is extended by 1 hour whenever the button is pressed - counting is started from the time the button is pressed. The period for which the party function is set flashes at the lower display margin.



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:

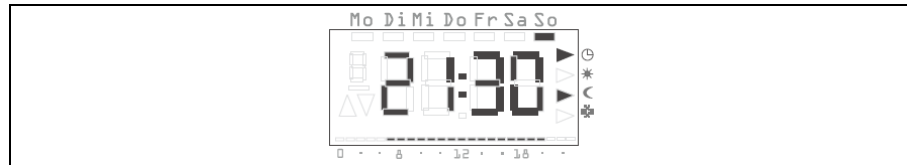
- Press the „**Prog**“, button in order to terminate the party function.


The Timer Thermostat returns to the normal time program.

1.2. 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



- Press the  button for less than 5 seconds.
The Timer Thermostat switches over to the lowering temperature. The Lowering temperature mode is displayed.
- ① This changeover is retained until the next switching time in the time program.

1.3. Switching for longer periods to the lowering temperature



- Press the  button for longer than 5 seconds.
The Timer Thermostat switches over **continuously** to the lowering temperature. The Lowering temperature mode is displayed, the time program is no longer displayed.
- This changeover is retained until you return to the normal time program.
- Press the **PROG** button in order to return to the normal time program.

Deactivating the lowering temperature

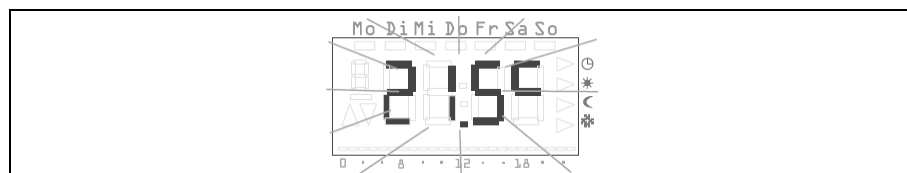
You can deactivate the lowering temperature at any time:

- Press the **PROG** button in order to deactivate the lowering temperature.
The Timer Thermostat returns to the normal time program.

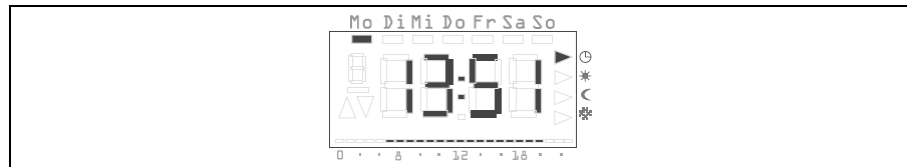
1.4. Setting the individual temperature

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

- Press the **SET** button..
The currently set individual temperature is displayed flashing.



- Press the + or - button in order to set the individual temperature..
- Press the **SET** button in order to confirm the set individual temperature.



The Timer Thermostat 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.

① Note!

If button S is not pressed, the display reverts to the normal display after 5 seconds. Any changes in the setpoint temperature are not transferred in this case.

Deactivating the individual temperature

You can deactivate the individual temperature at any time:

- Press the **SET** button in order to deactivate the individual temperature.

The Timer Thermostat returns to the normal time program.

1.5. Push button lock-out

To prevent an accidental or unauthorised operation of the room temperature controller, you can activate the push button lock-out in normal view.

Activate push button lock-out

- Press buttons **SET** and - and hold for longer than 5 seconds.

If the push button lock-out is active, '-- --' appears in the display after each push button action to signal that the required operation has been blocked.



Reactivate push button lock-out

- Press buttons **SET** and - and hold for longer than 5 seconds.

During the lock-out, '-- --' appears for 5 seconds in the display. If the push button lock-out is cancelled, the normal display appears and the push buttons can be released.

2. Settings in the program menu

You can change the following settings in the so-called program menu:

- Date and time (**Uhr** menu item)
- Temperature steps (**tEmP** menu item)
- Time program (**ProG** menu item)
- Holiday function (**UrLb** menu item)
- Anti-freeze function (**FrSt** menu item)

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:

- In normal display press the **PROG** button at least 5 seconds in order to access the program menu.
- Press the + or - button in order to access the desired menu item. The adjacent example shows the first menu item, the time.



- Press the **SET** button in order to select the desired menu item.

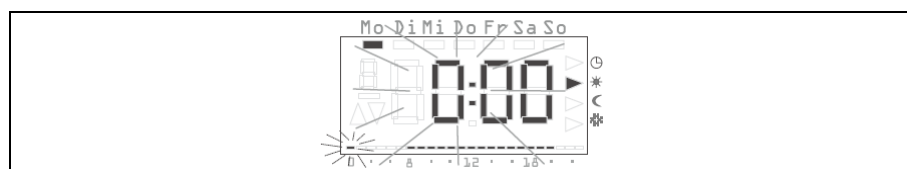
2.1. Setting the date and time – Uhr menu item

You can modify the date and time at any time.

① Note!

The clock is designed as a week-based time switch which functions for at least four hours if the power fails. The changeover between the summer and winter time is carried out automatically. The installed calendar automatically takes the leap years into consideration.

- Go in the program menu to the Uhr menu item (see above)
The hour display flashes.
- Press the + or - button until the desired hour has been set.

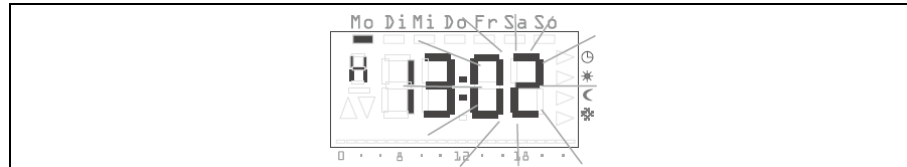


① Time format

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.

- Press the **SET** button.

The hour is set and the minute display flashes.



- 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 – only enter the date here. The weekday does not have to be entered since it is calculated automatically from the entered date.

① Date does not have to be set!

If the date is already set (correctly), you can already exit the setting here by pressing the **PROG** button.

- Confirm each entry with the **SET** button.

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

- Press the **PROG** button in order to return to the normal view.

2.2. Modifying the temperature steps – tEMP menu item

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

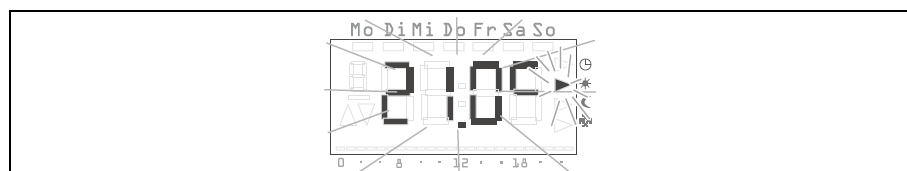
- Comfort temperature (default 21.0 °C)
- Lowering temperature (default 18.0 °C)
- Anti-freeze temperature (default 10.0 °C)

2.3. 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 Timer Thermostat.

- 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.



- Press the + or - button in order to set the desired temperature.
- Confirm with the **SET** button.
The display changes automatically to the next temperature step, the lowering temperature.
- 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.
- Press the **PROG** button in order to return to the normal view.

Aborting modifications to the temperature steps:

- Press the **PROG** button in order to abort setting the temperature steps.
You return automatically to the program menu. The temperature Stepp which you have opened last for editing is not saved.
- Press the **PROG** button in order to return to the normal view.

2.4. Modifying the time program - ProG menu item

You can change the switching times of your Timer Thermostat in the ProG menu item. A maximum of 32 switching times are available. Each switching time specifies a point within a week at which a change between the comfort and lowering modes takes place. You can change the time in steps of 10 minutes.

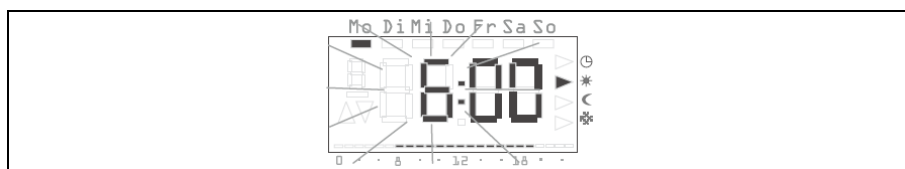
After commissioning, a time program is factory presetted.

Weekdays	Period
Monday – Friday	6.00 – 22.00 comfort temperature
Saturday, Sunday	6.00 – 23.00 comfort temperature

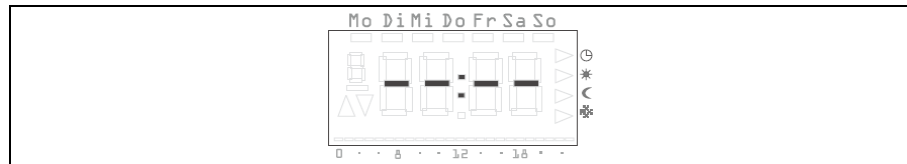
These settings can be modified or extended freely.

Viewing the switching times

- Go in the program menu to the ProG menu item (see Page 7)
The first switching time is displayed.

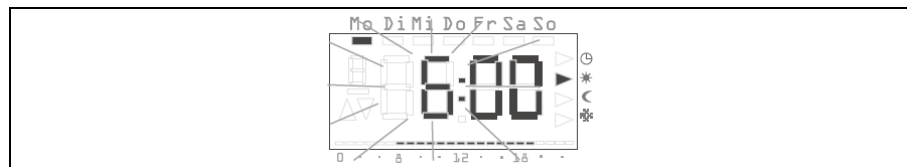


- Press the + or - button in order to view the further switching times.
The switching times are displayed chronologically, beginning at Monday 0.00 hours, rising to a maximum of Sunday 23.50.
An empty switching time is offered at the end of the list if at least one switching time is still available.



Modifying the switching time

- Go in the program menu to the ProG menu item (see Page 7).
- If a switching time exists, press the **SET** button.
The switching time is opened for editing, the hour display flashes.



- Press the + or - button in order to modify the hour display.
- Confirm with the **SET** button.
- 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

① 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.

- 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

- Go in the program menu to the ProG menu item (see Page 7)
- Press the + or - button in order to access the desired switching time.
- 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 the stored switching times. This can be advisable e.g. if a complete conversion of the time program should take place and the deletion of individual program items is too lengthy.

- Go to the menu item 'ProG' in the program menu (see Page 7)
- Select any switching time with the buttons + or -. Press the buttons + and - and hold them for longer than 10 seconds.

All the switching times are deleted irrevocably and an empty program item appears with the display '-- --'.



① Note

In this process, the factory-programmed switching times are also deleted. These times can be restored via the reset function.

2.5. Inserting a new switching time

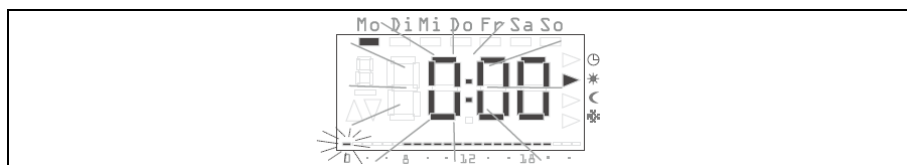
- Go in the program menu to the ProG menu item (see Page 7).
- Press the + or - button in order to access the empty switching time.



- Confirm with the S 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.



- Press the + or - button in order to modify the hour display.
- Bestätigen Sie mit der Taste „SET“.
- 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

① **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.

- 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.

2.6. Aborting the settings at the time program

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

- 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.

- Press the **PROG** button in order to return to the normal view.

Further information on programming switching times

- If no further switching time is available, no empty switching time is 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 the time program which do not cause a change in the temperature step) are not recognized or removed automatically. You have to search for such switching times and remove them yourself if further free switching times are required.

2.7. Setting the holiday program – UrLb menu item

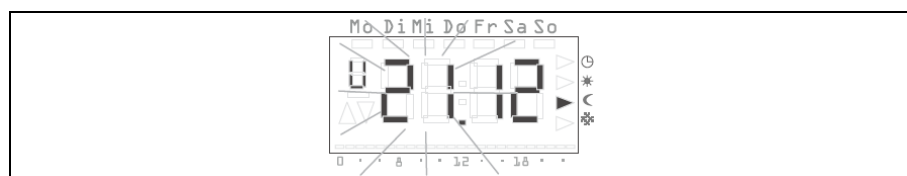
A holiday program is available in the UrLb menu item. You set the starting date and end date of your absence here. During this period the system regulates to a constant selectable temperature step. After the holiday period has expired the holiday program is deleted automatically so that it is not repeated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

Setting the holiday period

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

When the UrLb menu item is entered the unit displays either:

- The holiday beginning with the day and month

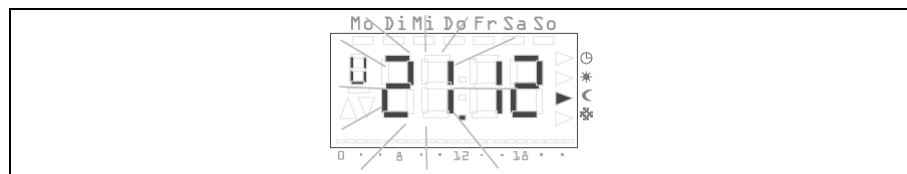


or

- The display "--.--" if no holiday period has been defined yet.



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



The current date is entered automatically as the holiday beginning. However, you can also edit this date:

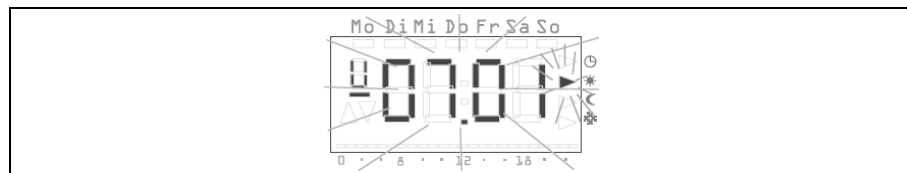
The month is displayed flashing.

- Press the + or - button in order to set the month.
- Confirm with the **SET** button.

The day begins to flash.

- Press the + or - button in order to set the day.
- Press the **SET** button again.

The display changes to the holiday end.



The month is displayed flashing.

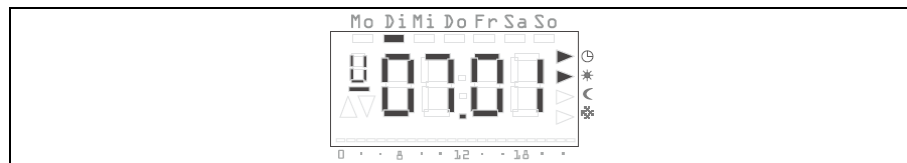
- Use the same procedure to set the holiday end (month and day).
- Confirm each entry with the **SET** button.

The operating mode display begins to flash.

- Press the + or - button in order to select the desired temperature step which is to be maintained during the holiday.. All three temperature steps (Comfort, Lowering and Anti-freeze) are available.
- Confirm with the **SET** button.

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

- Press the **PROG** button and the Timer Thermostat returns to the normal view.



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

Deleting the holiday period

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

The Timer Thermostat returns to the program menu.

- Press the **PROG** button and the Timer Thermostat returns to the normal view.

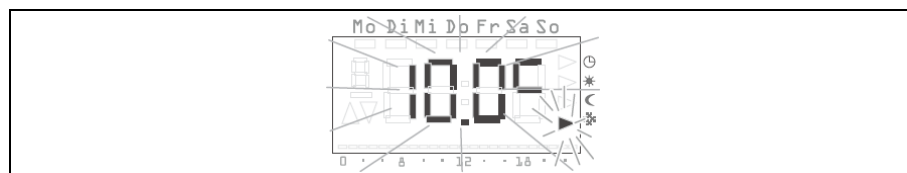
2.8. Activating/deactivating the anti-freeze function – FrSt menu item

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

① Anti-freeze temperature

The anti-freeze temperature can only be set in the range of +5 °C and +15 °C.

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

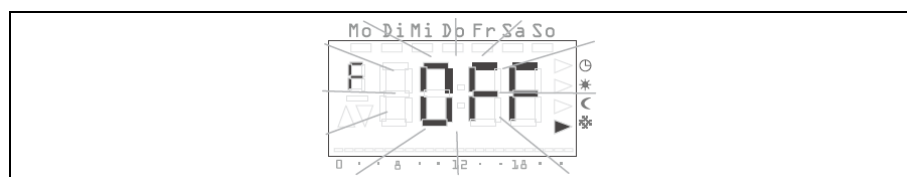


The set anti-freeze temperature is displayed flashing. In addition the corresponding operating mode is displayed flashing at the right-hand display margin.

- Press the + or - button in order to select the desired anti-freeze temperature.

- Confirm with the **SET** button.

Im Display erscheint die Anzeige **On** oder **OFF**.



① Modifying the anti-freeze temperature

A modification of the anti-freeze temperature also acts on the

antifreeze temperature set under "Modifying temperature steps" (refer to Page 8).

- On or OFF is displayed.
- Press the + button in order to activate the anti-freeze function (On) or the – button in order to deactivate the anti-freeze function (OFF).
- Press the S button.

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

- Press the P button and the Timer Thermostat returns to the normal view.

After the anti-freeze function has been deactivated, the Timer Thermostat returns to continuous Lowering mode.

① Proceed as follows in order to return to the normal time program:

- In normal display press the **PROG** button at least 5 seconds in order to access the program menu.
- Press the **SET** button in order return to the ProG menu item.
- Press the **PROG** button in order to activate the normal time program again.

Mounting Instructions and Commissioning for the Electrician

3. Installation

3.1. Installation and safety instructions

The Timer Thermostat is conceived for flush-type mounting. It is divided into two units:

- The insert which contains the power electronics and the connections (for flush-mounting box)
- The center plate with the operating elements which is attached to the insert.
- Before working on the Timer Thermostat de-energize the device and secure against restarting!
- Only connect the Timer Thermostat to fixed wiring in closed dry rooms.
- Ensure that lines with supply voltage, such as the power supply and relay connecting leads do not come into contact with low-voltage lines such as sensor lines (minimum distance 4 mm at basic-insulated lines).
- Sollte das Uhren-Thermostat nach der Montage nicht funktionieren, überprüfen Sie bitte zuerst den korrekten Anschluss und die Spannungsversorgung.
- If the Timer Thermostat does not function after mounting, first check that the connection is correct as well as the power supply.

- Lay the base sensor of the Timer Thermostat in a sensor conduit. If an open sensor conduit is to be used, close it with a plug so that tile bonding agent or cast plaster cannot ingress into the sensor conduit, causing the sensor to be damaged. Only use sensors from protection class II.

4. Mounting

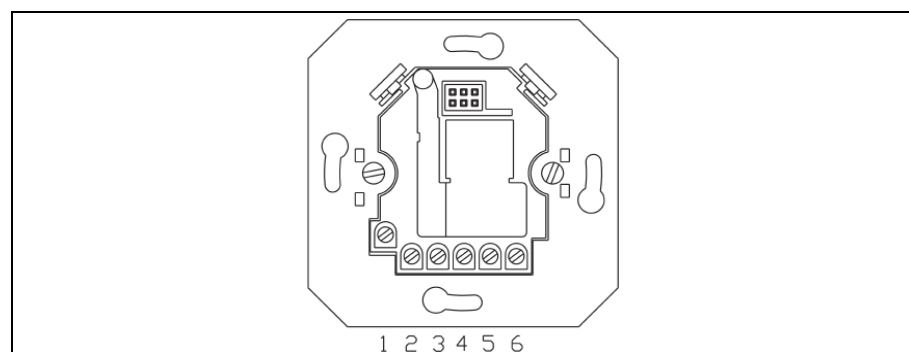
The Timer Thermostat can be inserted or mounted into flush-mounting boxes.

Please observe the following points for optimal operation:

- We recommend an optimum mounting height of 1.50 m.
- Do not subject the Timer Thermostat 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 Timer Thermostat in a physical unit with other electrical devices, such as dimmers, since a possible heat development could influence the Timer Thermostat.
- When used with an external temperature sensor an empty conduit (flexible or firm plastic tube) has to be laid, for example in the flooring, until the measuring point. Select an installation location for the external sensor at which the room temperature can be measured neutrally as far as possible.

5. Electrical connection

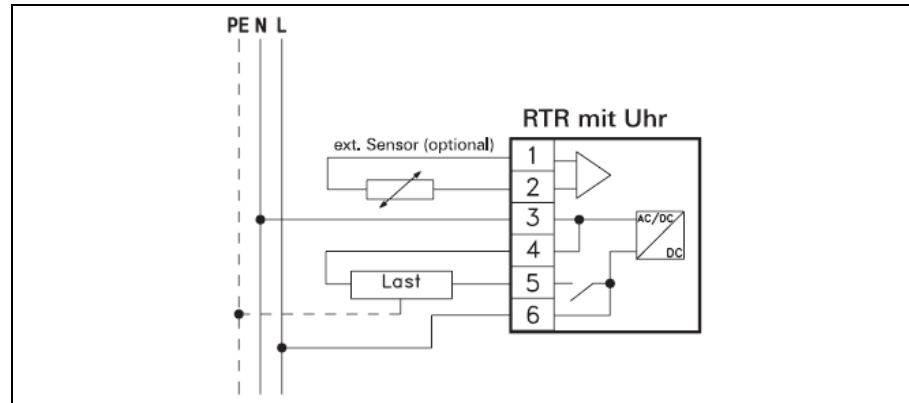
All the connecting terminals are equipped with slotted screws for screwdriver mounting. A common screwdriver with a 3 mm blade can be used.



The connection has 6 terminals:

- 1 - External sensor
- 2 - External sensor
- 3 - N
- 4 - N
- 5 - L
- 6 - L

Two separate terminals can be used for the neutral conductor.



5.1. Safety function

Incorrect insert

The clock thermostat display is protected against being inadvertently placed on an insert from the Blind Management system.

If the incorrect insert is used, the word 'FAIL' flashes in the clock thermostat display.

Error on the external sensor

When an external sensor is used, it is checked to ensure that it functions correctly.

If the sensor is faulty or the incoming cable is interrupted or shortcircuited, 'FAIL' is indicated in the display. To determine the error more precisely, please check the value in the parameter menu 'Temperature on the external sensor (F)' on page 7.

- At a temperature below + 3.5 °C, there is a short-circuit in the sensor cable or in the sensor itself. At a temperature above +85 °C, the incoming cable has been interrupted or the sensor is damaged.

① 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 incorrect control operation.

In order to change to the parameter menu:

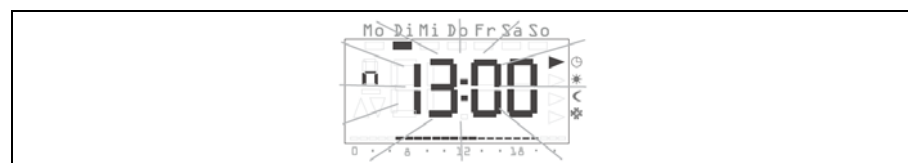
- Keep the **SET** and **PROG** buttons pressed simultaneously for longer than 5 seconds in the normal display.

The parameters required for commissioning can be defined in this menu.

The works settings are preset to values which ensure proper operation even without adaptations in the parameter menu. However, if certain control parameters have to be adapted, these settings can be carried out here.

The following parameters can be set or read:

n (normal)	Normal display (time, setpoint temperature, actual temperature)
b (operation)	Operating mode: internal sensor, external sensor or internal sensor with limit
d (diff)	Differential gap = Hysteresis
G (limit)	Limiting temperature
F (sensor)	Temperature at the external sensor
t (time)	Minimum ON period in seconds [s]
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 [min/K]
S (Summertime)	Specification which summertime regulation (Central European or GB) is to be used for calculation
U (clock)	Correction value for accuracy in seconds per day [s/d]
-	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.

① Modifications in the parameter menu

Modifications to the parameters 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 a few seconds.

Normal display (n)

This parameter is used to select the normal display of the controlling device. 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	Clock*
Current setpoint temperature	SETPOINT
Current actual temperature	ACTUAL

* factory setted

Operating mode (b)

This parameter allows individual selection of the function for the Timer Thermostat. This is used to specify the sensor selection for temperature controlling, the mode of operation (heating/cooling) and the limiting function.

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

Reference variable	Operating mode	Floor temperature limit	Display
Internal sensor	Heating	---	I.H*
Internal sensor	Cooling	External sensor	IE.C
External sensor	Cooling	---	E.C
Internal sensor	Cooling	---	I.C
Internal sensor	Heating	External sensor	IE.H
External sensor	Heating	---	E.H

* factory setted

Differential gap (d)

This parameter defines the differential gap (hysteresis) of the controlling function.

- The + and - buttons can be used to select the value.
- **SET** activates the value.

The relay is switched off if the current temperature lies over the setpoint temperature by the value set here (Cooling operating mode).

The relay is activated again if the actual temperature lies below the setpoint value by the value set here (Heating operating mode).

The switching difference is factory setted to ± 0.2 °C.

Limiting temperature (G)

This parameter allows the setting of an individual limitation of the floor temperature. If the limiting function is activated (operating mode with limiting function selected), the relay is deactivated as soon as the temperature measured at the external sensor exceeds the temperature set here (heating).

In cooling mode the relay is deactivated as soon as the measured temperature lies below the set limiting temperature.

- The + and - buttons can be used to set the limitation.
- **SET** activates the limitation.

The setting range amounts to +5 °C to +55 °C. The limiting temperature is factory set to +45 °C.

The limiting function does not have a differential gap, so that switching is carried out immediately if the value exceeds the upper or lower limit.

Temperature at the external sensor (F)

If an operating mode which requires an external sensor is selected, the current temperature value is displayed under this menu item. No change can be carried out at this value.

If an operating mode which only operates with the internal sensor is selected, "--.--" is displayed.

Ist eine Betriebsweise ausgewählt, die nur mit dem internen Fühler arbeitet, erscheint in der Anzeige "--.--".

Minimum ON period (t)

In order to prevent frequent relay switching, this parameter can be used to specify the minimum ON period. This period specifies the minimum amount of time for which the relay is to remain on when a request has activated the relay.

- The + and - buttons can be used to set this parameter in a range of 20 seconds to 500 seconds (8.3 minutes) in steps of 10 seconds.
- **SET** is used to save the set value.

A minimum ON period of 20 seconds is set in our works.

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 through the unfavorable placing of the Timer Thermostat.

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

The value set here is always applied to the respective active sensor (external or internal temperature sensor, depending on the operating mode selected) which is used for the temperature control.

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

Heating optimisation (E)

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.

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

The heating optimisation is Factory made activated (On).

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 factory setted to a gradient of 15 minutes per Kelvin.

Summertime regulation (S)

The summertime regulation with which the changeover from normal to summertime and vice versa is to be calculated can be selected here. The Timer Thermostat differentiates between Central Europe and Great Britain.

- The + and - buttons can be used to change to one of the operating modes listed below.
- **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

* Preset in our works

① Information on the summertime function

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.

Accuracy (U)

A correction value is entered at the factory which guarantees the highest possible precision of the clock function.

The value represents the correction in seconds per day and cannot be modified.

Software version (-)

The currently installed software version can be interrogated here.

① Specifying the software version

When reporting technical problems or unwanted side-effects 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 programmings and reset the device to the standard works values:

- 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 offers the clock setting for commissioning.

6. Technical data

Operating voltage	AC 230 V~, 50 Hz
Power consumption	Approx. 3.7 VA
Contact type	1 NO contact, with equipotential bonding (relay contact)
Max. permissible switched current	8 A (cos φ = 1), 4 A (cos φ = 0,6)
Temp.differential gap	$\pm 0.1 \dots \pm 1,3$ K, einstellbar adjustable Increment 0.1 K
Sensor	Semiconductor sensor (KTY) Internal or external or internal + external
Time function	Electronic time delay switch with week program, automatic summertime/normal time changeover
Power slots	32, can be freely distributed across the week, increment 10 minutes
Power reserve	At least 4 hours via Gold Cap (capacitor, no battery)
Minimum ON period	20 s to 500 s, Increment 10 s
Deadlock protection	After 7 days of non-operation of the relay at 10:00 o'clock on the following day
Electrical connections	Screwed terminals with slotted screws
Temperature ranges	
+ 10 ... + 40 °C	(comfort and lowering temperature)
+ 5 ... + 15 °C	(anti-freeze temperature)
+ 5 ... + 55 °C	(limiting temperature) Increment 0.5 K each
Permissible ambient temperature	0 ... + 50 °C
Fastening	Wand mounting in/on the flush-mounting box
Protection type	IP 30
Protection class	II (if mounted properly)

7. 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:

ALBRECHT JUNG GMBH & CO. KG

Service-Center

Kupferstr. 17-19

D-44532 Lünen

Service-Line: 0 23 55 . 80 65 51

Telefax: 0 23 55 . 80 61 89

E-Mail: mail.vki@jung.de

General equipment

Service-Line: 0 23 55 . 80 65 55

Telefax: 0 23 55 . 80 62 55


E-Mail: mail.vkm@jung.de

KNX equipment

Service-Line: 0 23 55 . 80 65 56

Telefax: 0 23 55 . 80 62 55

E-Mail: mail.vkm@jung.de

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