

theben

SELEKTA 170 top

Ref. Nr. 170 0 002

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SEL 173 DCF



ELPA 5



TR 610 top



LUNA 126 star



LU 110

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1. Designated use

The timer with astronomical program is suitable for light control (e.g. lighting of streets, shop windows). By inputting the location coordinates, it calculates the sunrise and sunset times for every day of the year for the geographic location entered.

Upon start-up, the clock is fully functional (with integrated astronomical program). It can be individually programmed for nighttime interruption to save energy.

The keyboard can be locked with a PIN code.

Designated use also includes adherence to the instructions for installation and operation. Any other use is considered contrary to the designated use. The manufacturer accepts no liability for damage resulting from such use.

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2. Safety note



Installation of electrical devices should only be carried out by a professional electrician. National regulations and safety requirements must be adhered to! Tampering with or making modifications to the device will invalidate the guarantee.

3. Equipment description

Overview of programmed **switch times** with segments every 30 minutes

Pictogram line with PROG, ⌚
MAN, 🔧

Astronomical and switch time symbols

- Sunset ON ☀️
- Start nighttime interruption OFF 🌙
- End of nighttime interruption ON 🌅
- Sunrise OFF 🌄

Channel status

Ein = ON, AUS = OFF

Selection Menu (when inputting information in the device always press the Menu key first)

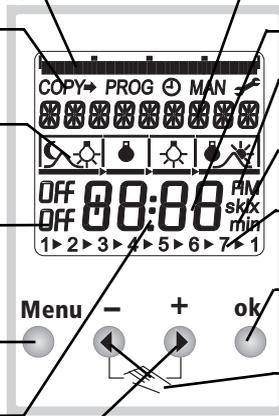
PROG, ⌚, MAN, 🔧 or

Aborting input

Service voltage OK: two dots flash

Power failure: three dots flash

Key + or - = answer **NO**,
or **continue** (and setting of values,
e.g. change clock time)



Text lines (always represents a question in the operating menu, which **must be answered with YES** (Key OK) or **NO** (Keys + or -))

Time display

a.m./p.m. change segment (not visible with 24-hour design)

s = seconds
min = minutes

Days of the week from 1 to 7 with an arrow for changeover of day (1 = Monday, 2 = Tuesday ..)

Key OK = answer YES
Confirmation of selection or programming

Direct manual switching (only in Automatic mode)

- press both keys at the same time
=> manual switching (switching pre-selection)
- press both keys at the same time for about 2 seconds
=> permanent switching

4. Use/Installation



- Use the timer only in dry areas.
- The timer is only intended for use where environmental conditions are of normal pollution.
- Timer for distributor installation in the 35 mm-rail fixing (DIN 50022); wall installation with additional terminal box cover plate also available.
- Regardless of expensive protective measures, strong electro-magnetic fields can interfere with the micro-processor-controlled timer.

Please note therefore, before installation:

- Use a separate line for the service voltage supply.
 - Shield inductive consumer with appropriate RC filter.
 - Do not install device close to sources of interference, e.g. transformers, contactors, PC, television and remote control devices.
 - Perform a RESET after any type of interruption.
- Note:** The programmed switch times remain stored in the EEPROM.
- Devices producing a great deal of heat located near the device will shorten the service life of the battery.

5. Operating information

The main overall principle of operation

1. Read the text lines:

Flashing text or flashing symbol always indicates a question.



2. Make a decision:

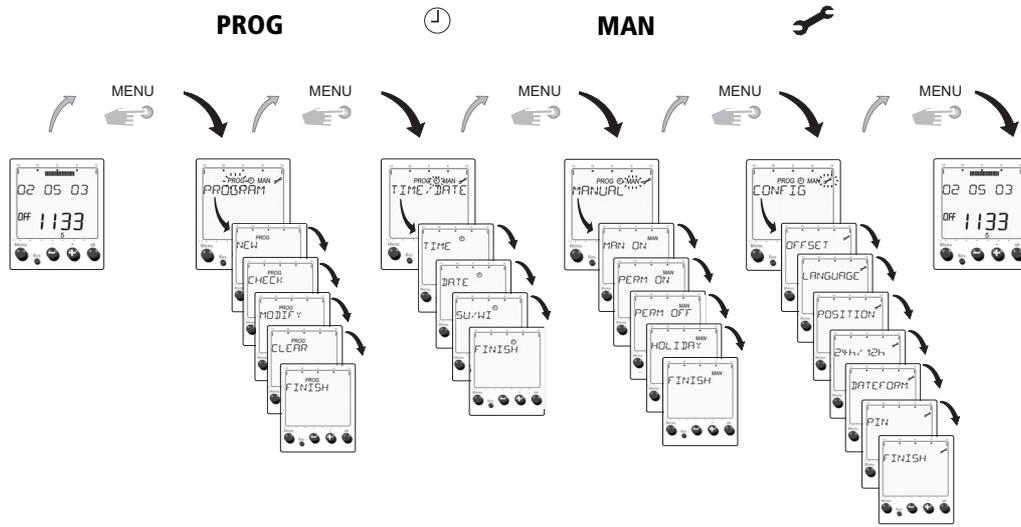
Answer the question by pressing a key.



Decision **YES**:
Confirmation
with key **OK**

Decision **NO**:
Change/revise
with + or – key

6. Overview of input menu



7. Initial start-up

The timer is delivered in so-called sleep mode (Display is shut off).

Activate without service voltage

Briefly press any **desired key**. The timer has a power reserve. Therefore, it can be programmed even before installation.

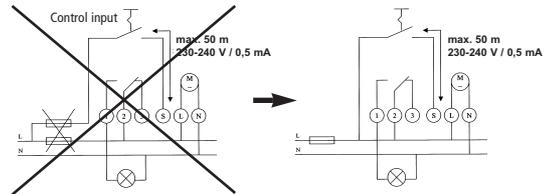
Control input

This input allows the device to be activated independent of the sunrise and sunset times and the programmed nighttime interruptions.

This switch per the control signal corresponds to the function **permanent ON**.

The input is operated with a line voltage of 230 V, with available N-clamp as a point of reference.

Initial start-up



Note

If a voltage is impressed on the "S" external input, the keys will be blocked.

Therefore, the external input must be idle when starting the machine.

Initial start-up

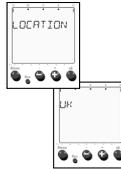
1. Using the + or – key, select your **language** (e.g. **English**).
2. Store by using the **OK** key.



You can now start the clock by inputting default **locations** or **coordinates**.

Initial start-up by location

1. Confirm **LOCATION** with the **OK** key.
Display **UK** (on moving screen).
2. Select your country with the + or – key.
Confirm with the **OK** key.
3. Use the + or – key to select the city in your area (e.g. **LONDON**).
Confirm with the **OK** key.



Since the date and the time are already pre-programmed ex factory, the timer is now ready to use and is in Automatic mode.



Initial start-up

Initial start-up by coordinates

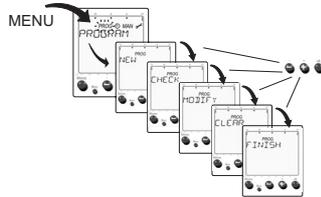
1. Instead of **LOCATION**, use the + or – key to select **COORDINAT**. Confirm with the **OK** key.
2. Select your geographic location from the accompanying time zone by longitude, latitude and time zone.
3. Use the + or – key to set your location coordinates of southern/northern latitude. Inputting the latitude ranges from 0° north to 90° south.
4. Confirm with the **OK** key.
5. Use the + or – key to set your longitude west or east. Inputting the longitude ranges from 180° east to 180° west.
6. Use the + or – key to set your longitude or your time zone (e.g. Germany +01 hours).
7. Store by pressing the **OK** key.



The timer is now ready to use and is in Automatic mode.

8. Menu PROG

The astronomical switching times are automatically stored after start-up of the clock and after inputting the position information and will be performed daily. In the menu **PROG** additional fixed nighttime interruptions can be programmed in or astronomical switchings can be deactivated.



Switching program

Using the Menu key, **you** go from Automatic mode to the main menu of the input mode. Select menu item **PROG (PROGRAM)** and confirm with the **OK** key. Using the **+** or **-** key, you can switch between the sub-menus **New**, **Check**, **Modify**, **Clear** and **Finish**. Using the **OK** key, confirm the respective Menu. By confirming **Finish**, you return back to Automatic mode.

Menu PROG

Sub-menu NEW

Example Programming of nighttime interruption

Four phases of the night are always passed through when programming. The clock switches on in the evenings at sunset (astronomical) (Step 1) and at a pre-determined time (e.g. 11:00 p.m.) shuts off again (Step 2). In the morning it again switches on at a fixed time (e.g. 4:00 a.m.) (Step 3) and at sunset (astronomical) shuts off again (Step 4).

1. Select menu item **PROGRAM**.

2. Confirm with the **OK** key.

3. Use the **+** or **-** key to select the sub-menu **NEW**.

4. Confirm with the **OK** key .

The display shows **ASTROTIME**.

5. Confirm with the **OK** key.

The display shows **PROG TIME**.

6. Press the **+** key.

The display shows **ADD**.

7. Confirm with the **OK** key.

The display shows **SET**.



Menu PROG

- Using the + or – key to set the desired time.
- Confirm with **OK**. The display **PROG-TIME** flashes and your set time is shown.



Switching to a fixed point in time (end of a nighttime interruption) is **not yet** stored.

- Confirm your entry with the **OK** key. Again the display shows **PROG TIME**.
- Press the key +. Then the display shows **ADD**.
- Confirm with the **OK** key. The display shows **SET**.
- Use the + or – key to set the desired time.
- Confirm with the **OK** key. The display shows **ASTROTIME**.



Automatic switch-off at the calculated time of sunset is stored as activated.

- Confirm with the **OK** key. The display shows **MO-NIGHT**.



Menu PROG

- Select the desired night with the + or – key
- Confirm with the **OK** key. The night from Monday to Tuesday is shown in the weekday display with 1 ▶ 2.

Info

You have now entered the nighttime interruption for Monday night. You can store this program for an individual night. You can also copy it to other nights or all other nights of the week.

- The display shows **COPY**.
- Confirm with the **OK** key, if you wish to copy to other nights.
- Use the + key to select the night to which the program is also applicable (e.g. the night from Tuesday to Wednesday).
- Confirm with the **OK** key.
- Use the + key to select, for example, another night (e.g. the night from Thursday to Friday)



Menu PROG

23. Confirm with the **OK** key.
24. For all nights of the week, press the **OK** key, until **SAVE** appears at the end of the week.
25. Confirm with the **OK** key, until **NEW** appears.



Check and Modify Sub-menu

Example: Check individual switching steps

1. Use the **Menu** key to select the Menu item **PROG**.
2. Confirm with the **OK** key.
3. Use the **+** key to select the Sub-menu **CHECK**.
4. Confirm with the **OK** key.
5. The display shows **MO-NIGHT**. The switching times for Monday night are displayed.
6. Confirm with the **OK** key, to see the 4 switching steps for the night from Monday to Tuesday (with the



Menu PROG

keys **+** or **-** you could change to the display of another night).

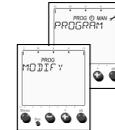
7. The symbol line for the astronomical/switching times now appears, which shows the 4 switching steps of the night (the first switching step is shown in detail). **NEXT** flashes in the text line. To view other switching steps, press the **OK** key again and again. The switching times for all of the week days (**Tues-Night, Wed-Night** ...) are displayed one after the other.



8. When the view is finished, **FINISH** appears. By pressing the **OK** key, you arrive back at the Sub-menu selection. Using the **Menu** key, you can discontinue at any time and revert to Automatic mode.

Example Deactivate/remove individual switching steps

1. Use the **Menu** key to select the Menu item **PROG**.
2. Confirm with the **OK** key.
3. Use the **+** key to select the Sub-menu **MODIFY**.



Menu PROG

4. Confirm with the **OK** key.

The display shows **MO-NIGHT**.

The switching times for Monday night are displayed in segment bars. Using the **+** or **-** key, you can now select the night in which the astronomical time is to be deleted.



5. Confirm with the **OK** key.

NEXT flashes. (see 7. previous page)

6. Press the **+** key.

The display shows **REMOVE** (This means that you can deactivate this first step (automatic activation by calculated time of sunset).



7. Confirm with the **OK** key.



8. If you want to clear (deactivate) additional switching steps, proceed as described above.

Menu PROG

Example: Change switch times for switching steps

Note: Only the fixed switch times of the nighttime interruption (Steps 2 and 3 of a night) can be changed. The astronomically calculated sunrise and sunset times (steps 1 and 4) can only be deactivated or adjusted via **OFFSET** in the Menu .

1. Use the **Menu** key to select Menu item **PROG**.

2. Confirm with the **OK** key.

3. Use the **+** key to select the Sub-menu **MODIFY**.

4. Confirm with the **OK** key.

The display shows **MO-NIGHT**. The switching times for Monday night are displayed in segment bars. Using the **+** or **-** key, you can now select the night in which the switching time is to be changed.

5. Confirm with the **OK** key.

6. The symbol line for the astronomical/switching times appears, which shows 4 switching steps of the night (the first switching step is displayed in detail). **NEXT** flashes in the text line.

Menu PROG

7. Confirm **NEXT** with the **OK** key.
8. The second switching step of the night now appears in the display (start of nighttime interruption).
Use the + key to select the Sub-menu **ADD**.
9. Confirm with the **OK** key.
10. With the + or – keys, set the desired time for the nighttime switch-off.
11. Confirm with the **OK** key.
12. Switching step 3 (end of nighttime interruption) can be done as described **8.** below. After going through the 4 switching steps of the night, you arrive at the night selection (point **4**) for the following night.



If required, additional nights can be selected and switching times changed.

By pressing the **OK** key, you arrive back at the Sub-menu selection. Using the **Menu** key, you can abort at any time and return to Automatic mode.

Menu PROG

☐ Sub-menu Clear

1. Use the **Menu** key to select the Menu item **PROG**.
2. Confirm with the **OK** key.
3. Use the + key to select the Sub-menu **CLEAR**.

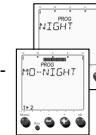


4. Confirm with the **OK** key. There is a choice of 3 different Delete sub-menus:

- **NIGHT:** delete an individual night (astronomical times and switching times)
- **PROG OFF:** delete all switching times, the astronomical times are activated for all days (Status at delivery)
- **ALL OFF:** all astronomical times and all switching times are deleted (memory empty)

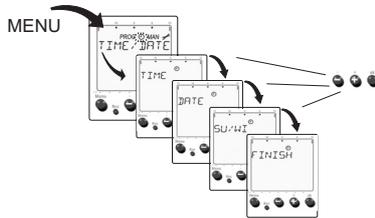
5. Confirm, for example **NIGHT** with the **OK** key.
The display shows **MO-NIGHT**.

6. Confirm with the **OK** key.
The display shows **CLEARED** and the astronomical and switching times for Monday night are deleted, you return back to Automatic mode.



7. If you want to delete additional nights, follow steps **1.** through **6.**

9. Menu



Using the **Menu** key, you go from the Automatic mode to the main menu of the input mode. Select menu item **(TIME/DATE)** and confirm with the **OK** key. With the **+** or **-** key, you can switch between the sub-menus **TIME**, **Date**, **SU/WI** and **Finish**.

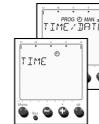
Using the **OK** key, confirm the respective Menu. By confirming **Finish**, you return back to Automatic mode.

Menu



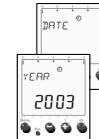
Setting/changing the clock time

1. Choose menu item with the **Menu** key.
2. Confirm with the **OK** key. The Sub-menu **TIME** appears.
3. Confirm with the **OK** key.
4. Use the **+** or **-** key to set the current clock time.
5. Confirm with the **OK** key.



Set date, month and day

1. Choose menu item with the **Menu** key.
2. Confirm with the **OK** key.
3. Use the **+** key to select the Sub-menu **DATE**.
4. Confirm with the **OK** key. The display shows **YEAR**.
5. Use the **+** or **-** key to set the year.
6. Confirm with the **OK** key. The display shows **MONTH**.



Menu

7. Use the + or – key to set the current month.
8. Confirm with the **OK** key.
The display shows **DAY**.
9. Use the + or – key to set the current day.
10. Confirm with the **OK** key.



Summer/winter time changeover (SU/WI)

Depending on the particular version, an automatic summer/winter time changeover is already pre-programmed. If you want to set a different summer/winter time, choose this from the table.

Setting / scope	Start of the for summer time	Start of the winter time	changeover-hours
Europe	last week in March	last week in October	2:00 a.m.
Great Britain/ Portugal	last week in March	last week in October	1:00 a.m.
SF/Greece/TR	last week in March	last week in October	3:00 a.m.
USA/Canada	first week in April	last week in October	2:00 a.m.
freely -- --	selectable	selectable	selectable

Menu

The selection "**free**" allows the individual programming of a changeover rule by inputting the month, week and switching hour (month 3 = March, week 4 = 4th week of the month, week 5 = last week in the month). The changeover takes place in the respective week during the night from Saturday to Sunday.

1. Choose the menu item with the Menu key 
2. Confirm with the **OK** key.
3. Use the + key to select the Sub-menu **SU/WI**.
4. Confirm with the **OK** key.
5. Use the + or – key to select **WITH S/W** (automatic changeover activated).



6. Confirm with the **OK** key.
7. Use the + or – key to select a changeover rule from the table (e.g. **EUROPE**).
8. Confirm with the **OK** key (this rule is now activated).
The display shows **FINISH**.
9. With the **OK** key, you return back to Automatic mode.

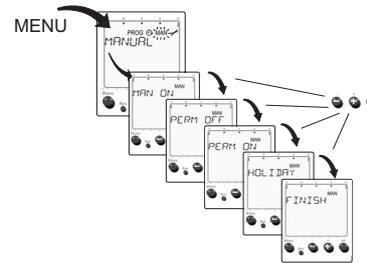
Menu

Automatic summer/winter time deactivate changeover

1. Choose the menu item with the **Menu** key 
2. Confirm with the **OK** key.
3. Use the + key to select the Sub-menu **SU/WI**.
4. Confirm with the **OK** key.
5. Use the + key to select **WOUT S/W** (automatic changeover not activated).
6. Confirm with the **OK** key (now there is no automatic conversion). The display shows **FINISH**.
7. With the **OK** key you return back to Automatic mode.



10. Menu MAN



Using the **Menu** key you go from the automatic mode to the main menu of the input mode. Select menu item **MAN (MANUAL)** and confirm with the **OK** key. Using the + or - key, you can switch between the sub-menus **Man, Perm, Holiday** and **Finish**.

Using the **OK** key, confirm the respective Menu. By confirming **Finish**, you return back to Automatic mode.

Menu MAN

Manual switching

Manual switchings **ON** or **OFF** always return to the current switching status of the program. They are automatically corrected by the stored program at the next sequential switch time.

Set manual switching

1. Use the **Menu** key to select the Menu item **MAN (MANUAL)**.
2. Confirm with the **OK** key.
3. Use the **+** or **-** key to select **MANUAL**.
The display shows **MAN ON** or **MAN OFF** (depending on previous switching status).
4. Confirm with the **OK** key.



The timer reverts back to Automatic mode, the switching status is changed and instead of the date showing in the display, **MAN ON** or **MAN OFF** appears.

Menu MAN

Delete manual switching

When you want to delete Manual switching,

1. Use the **Menu** key to select the menu item **MAN (MANUAL)**.
2. Confirm with **OK** key.
3. Use the **+** key to select **CLEAR**.
4. Confirm with the **OK** key.



The clock reverts back to Automatic mode and the switching status is changed.
The date appears again in the display.

Note

Manual switching (manual and permanent switching) can be activated and deleted in Automatic mode by simultaneously pressing the **+** and **-** keys.

Menu MAN

Permanent switching (permanent switching)

Set PERM ON / PERM OFF

1. Use the **Menu** key to select the Menu item **MAN**.
2. Confirm with the **OK** key.
3. Use the + or – key to select **PERM ON** or **PERM OFF**.
4. Confirm with the **OK** key.



The timer reverts back to Automatic mode and the selected switching status is accepted. The display shows **PERM ON** or **PERM OFF**. This switch status remains until permanent switching is again reset.

Cancel/delete Permanent switching

1. Use the **Menu** key to select the Menu item **MAN**.
2. Confirm with the **OK** key.
3. Use the + or – key to select **CLEAR**.
4. Confirm with the **OK** key.



Menu MAN

The timer reverts back to Automatic mode and the applicable switch status according to the switch program is accepted. The date appears again in the display.

Holiday program

The holiday program renders the astronomical program and the programmed nighttime interruption times ineffective.

The switch outlet remains in the holiday time which is set on **OFF**. It is defined by inputting the date and time of the start and end of the holiday period.

Set Holiday program

1. Use the **Menu** key to select the Menu item **MAN**.
2. Confirm with the **OK** key.
3. Use the + key to select **HOLIDAY**.
4. Confirm with the **OK** key.
The display shows **NEW**.
5. Confirm with the **OK** key.
The display briefly shows **BEGIN** and then **YEAR**.



Menu MAN

- Use the + or – key to set the year for the beginning of the holiday program.
- Confirm with the **OK** key.
- Use the + or – key to set the **MONTH**.
- Confirm with the **OK** key.
- Use the + or – key to set the **DAY** for the beginning of the holiday program.
- Confirm with the **OK** key. The time appears.
- Use the + or – key to set the time for the beginning of the holiday program (only complete hours can be entered).
- Confirm with the **OK** key.

For inputting the end date (**YEAR, MONTH, DAY, TIME**) (End of Holiday program), follow the steps as described above.

The clock reverts back to Automatic mode. The Holiday program is started on the date that has been input, i.e. the clock remains in the OFF status from that time on until the end date.

Menu MAN

Check Holiday program

- Follow the above steps from **1.** through **4.**
- Use the + key to select **CHECK**.
- Confirm with the **OK** key.



Each time a key is pressed, the Holiday program information is displayed.

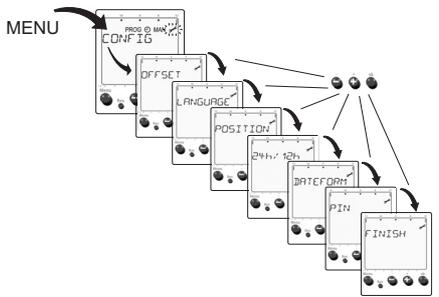
Clear Holiday program

- Follow the above steps from **1.** through **4.**
- Use the + key to select **CLEAR**.
- Confirm with the **OK** key.



The Holiday program is deleted. If the Holiday program was already active, the clock performs a program review and re-establishes the correct switch status.

11. Menu



Using the **Menu** key, you go from the automatic mode to the main menu of the input mode. Select menu  (**CONFIG**) and confirm with **OK**. Using the **+** or **-** key, you can switch between the sub-menus **Offset**, **Language**, **Position**, **24h/ 12h**, **Dateform**, **PIN** and **Finish**.

Using the **OK** key, select the respective Menu. By confirming **FINISH**, you return back to Automatic mode.

Menu

Offset

The device can be optimally adapted to the environment (mountains, valley ...). The calculated sunrise and sunset times can be adapted to the location of use with a manually set correction factor, referred to in the information that follows as **OFFSET**.

1. Use the **Menu** key to select the Menu item **CONFIG**.
2. Confirm with the **OK** key.
3. Use the **+** or **-** key to select the Submenu **OFFSET**.
4. Confirm with the **OK** key.
The display shows **SUNSET** in a minutes display.



No correction: Again press the **OK** key.

Menu 

Correction

- Use the + or – key to select the respective correction factor. It consists of -120 to +120 minutes.
- Confirm with the **OK** key.
The display shows **SUNRISE** in a minutes display.
- such as **5**.
- Confirm with the **OK** key. The display shows **FINISH**.
- With the **OK** key, you return back to Automatic mode.



Language

- Use the **Menu** key to select the Menu item **CONFIG**.
- Confirm with the **OK** key.
- Use the + or – key to select the Sub-menu **LANGUAGE**.
- Confirm with the **OK** key.
The currently set language appears.
- Use the + or – key to select your desired language.



Menu 

- Confirm with the **OK** key.
The display shows **FINISH** in the newly-selected language.
- With the **OK** key, you return back to Automatic mode.

Position

- Use the **Menu** key to select the Menu item **CONFIG**.
- Confirm with the **OK** key.
- Use the + or – key to select the Sub-menu **POSITION**.
- Confirm with **OK** key. The display shows **LOCATION**.
- Use the + or – key to select the Sub-menu **LOCATION** or **COORDINAT**.
- for example, you confirm **LOCATION** with the **OK** key, press the + or – key for the desired country (e.g. UK on moving screen).
- Confirm with the **OK** key.
- Next select the desired city. The display shows **FINISH**.
- With the **OK** key you return back to Automatic mode.



Menu 

24h/ 12h (a.m. - p.m.)

1. Use the **Menu** key to select the Menu item **CONFIG**.
2. Confirm with the **OK** key.
3. Use the + or – key to select the Sub-menu **24h/ 12h**.
4. Confirm with the **OK** key.
The display shows **24h** or **12h**.
5. Use the + or – key to select the desired format.
6. Confirm with the **OK** key. The display shows **FINISH**.
7. With the **OK** key, you return back to Automatic mode.



Datformat (time and date display)

1. Use the **Menu** key to select the Menu item **CONFIG**.
2. Confirm with the **OK** key.
3. Use the + or – key to select the Sub-menu **DATEFORM**.
4. Confirm with **OK** key.



Menu 

5. Use the + or – key to select the desired display format, e.g. **31 12 00** either **12 31 00** **12 31 00** or **00 12 31**.

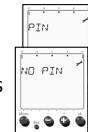


6. Confirm with the **OK** key.
The display shows **FINISH**.
7. With the **OK** key, you return back to Automatic mode.

PIN

The device can be locked against unauthorized use with a 4-digit code number.

1. Use the **Menu** key to select the Menu item **CONFIG**.
2. Confirm with the **OK** key.
3. Use the + or – key to select the Sub-menu **PIN**.
4. Confirm with the **OK** key. The display shows **NO PIN**.



Menu

Selection WITH PIN (enter new PIN)

- Use the + or – key to select **WITH PIN**.
- Confirm with the **OK** key.
- Create and make note of any desired 4-digit number.
- Use the + or – key to select the first digit of the 4-digit code.
- Confirm the input digit with the **OK** key.
- Select the other digits as described with the + or – key.
- Confirm in each instance with the **OK** key. The display shows **FINISH**.
- With the **OK** key you return back to Automatic mode. 90 seconds after the last key activation, the keyboard lock engages, i.e. PIN appears. Operation can now only continue after inputting the correct PIN code.



Selection NO PIN (Remove PIN code)

- Steps **1.** through **4.** as before.
- Use the + or – key to select **NO PIN**.



12. Reset response

- Confirm with the **OK** key. The display shows **FINISH**.
- You return back to Automatic mode by pressing **OK** key.

RESET (only in case of emergency)

If you perform a **RESET** of the timer, **the individual settings will be deleted. The programmed switching times remain intact.**

Note

- If a PIN code has been entered to lock the keyboard, then it must be input again after a RESET for setting the clock again.
- Therefore, before performing any RESET operation, make sure your PIN code is handy.
- If a PIN code has been activated, the timer can no longer be activated without a valid PIN code after a RESET.

The device must be sent in!

13. Technical data

Nominal voltage:	230 V - 240 V/ +10 % -15 %
Frequency:	50-60 Hz
Contact:	floating
Gap:	less than 3 mm (μ)
Time based on:	Quartz
Contact material:	AgSnO ₂
Switching capacity:	16 A/250 V~, cos ϕ = 1 10 A/250 V~, cos ϕ = 0.6

Incandescent lamp load: 2300 W

Halogen lamp load: 2300 W

Fluorescent lamps:

- Uncorrected: 1000 VA
- Series-corrected: 1000 VA
- Parallel-corrected: 400 VA (42 μ F)

Compact fluorescent lamps:

- 9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W

Technical data

Protection class:

II in accordance with EN 60 730-1 for designated installation

Degree of protection:

IP 20 in accordance with EN 60529

Service

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