http://waterheatertimer.org/Intermatic-timers-and-manuals.html#Talento-400

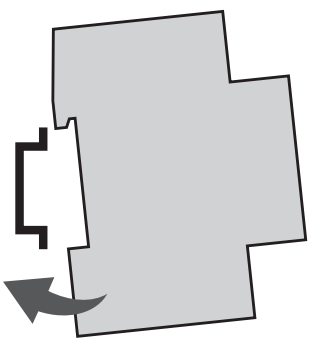
Safety precautions

- The connection and installation of electrical devices may only be carried out by a qualified electrician.
- Interventions in and changes to the device result in the voiding of the warranty claim.
- Observe your national regulations and the respective safety provisions.
- Fixed and flexible conductors of up to 10 mm^2 may be attached to the external terminal clips.
- Flexible cables with a cross-section ≤ 1 mm^2 should not be attached.

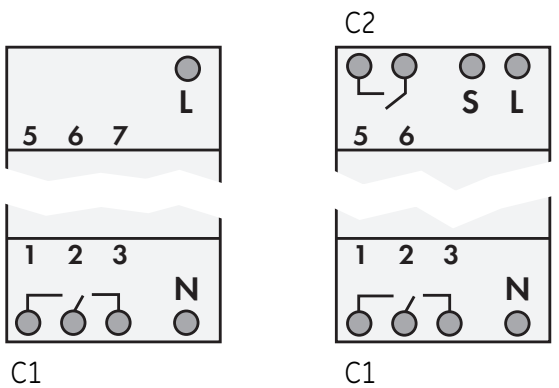
General information

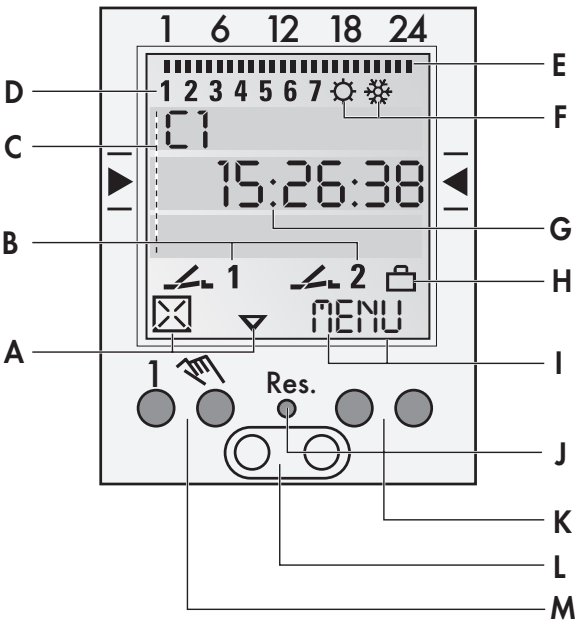
- Deactivation commands take priority over activation commands.
- If the power supply is correct, the dots shown between the hours and minutes (HH:MM) are displayed permanently. The dots flash if the power supply is interrupted.
- If there is no power supply, the position indicator display goes out after 2 minutes.
- The whole display flashes if the battery needs to be changed within the next 2 weeks.

Installation on DIN rail



Terminal diagram





Display

A Function displays of the two left-hand buttons

B Channel status displays
1 = Channel 1 ON
1 = Channel 1 OFF
Channel 1 = C1, Channel 2 = C2

C 3 communication lines for time display, menu items, entry prompts etc.

D Day-of-week display

E Overview of daily switching program

F Display of summer/winter time

G Operating voltage (permanently lit dots)
Reserve power operation (dots flash)

H Holiday mode display

I Function displays of the two right-hand buttons

General information

- The middle communication line shows the selectable menu item. If confirmed with **OK**, this item is activated.
- Flashing texts or symbols require an entry.
- If no entries are made within the next 2 minutes, the clock reverts to Auto mode.

Buttons

J Reset
The programs are retained in the case of a reset. The date and time must be set again. Press reset button with a blunt object (pen).

K Right-hand buttons

L Infrared interface

M Left-hand buttons with manual switch function in Automatic mode

Function displays of the two left-hand buttons:

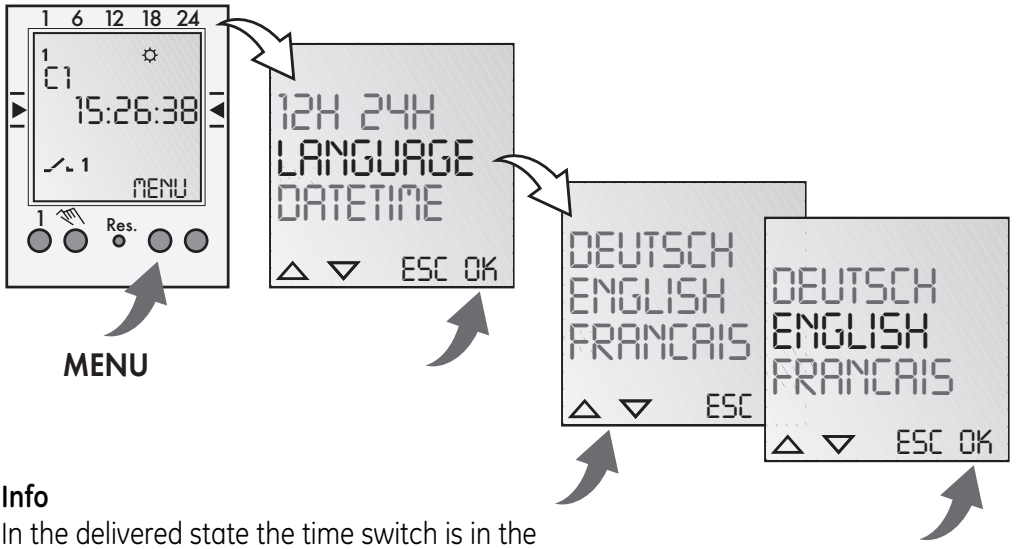
△ scroll up in menu
▽ scroll down in menu
☒ Select/reject suggestion
✓ Select/accept suggestion
\+ Pressing briefly = +1
Pressing long (approx. 2 sec) = +5
\- Pressing briefly = -1
Pressing long (approx. 2 sec) = -5

Function displays of the two right-hand buttons:

MENU Exits the Automatic mode and enters the Programming mode
ESC Pressing briefly = one step back
Pressing long (approx. 2 sec) = return to Automatic mode
OK Make selection and apply
EDT Change request in Read mode
NO Do not execute command
YES Execute command
DEL Delete

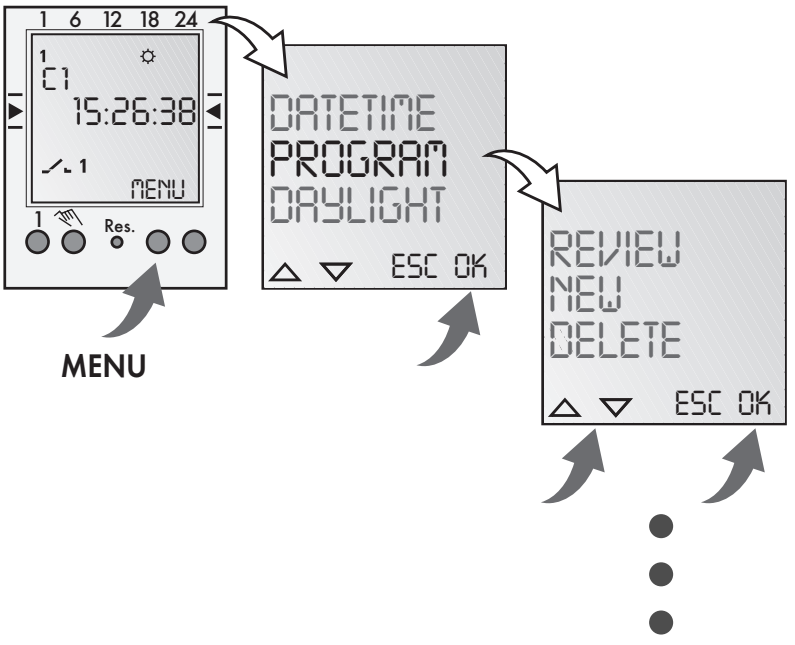
1.

Initial start-up - selection of menu language

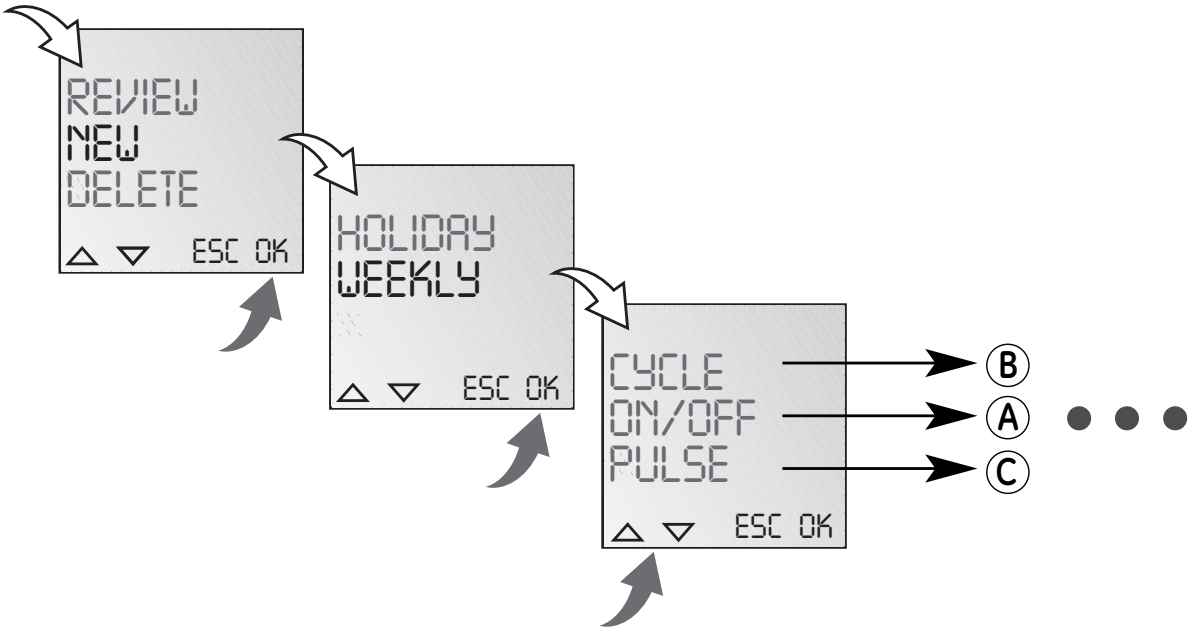


Info
In the delivered state the time switch is in the Auto mode with a preset time, date and the menu language English.

Prog.



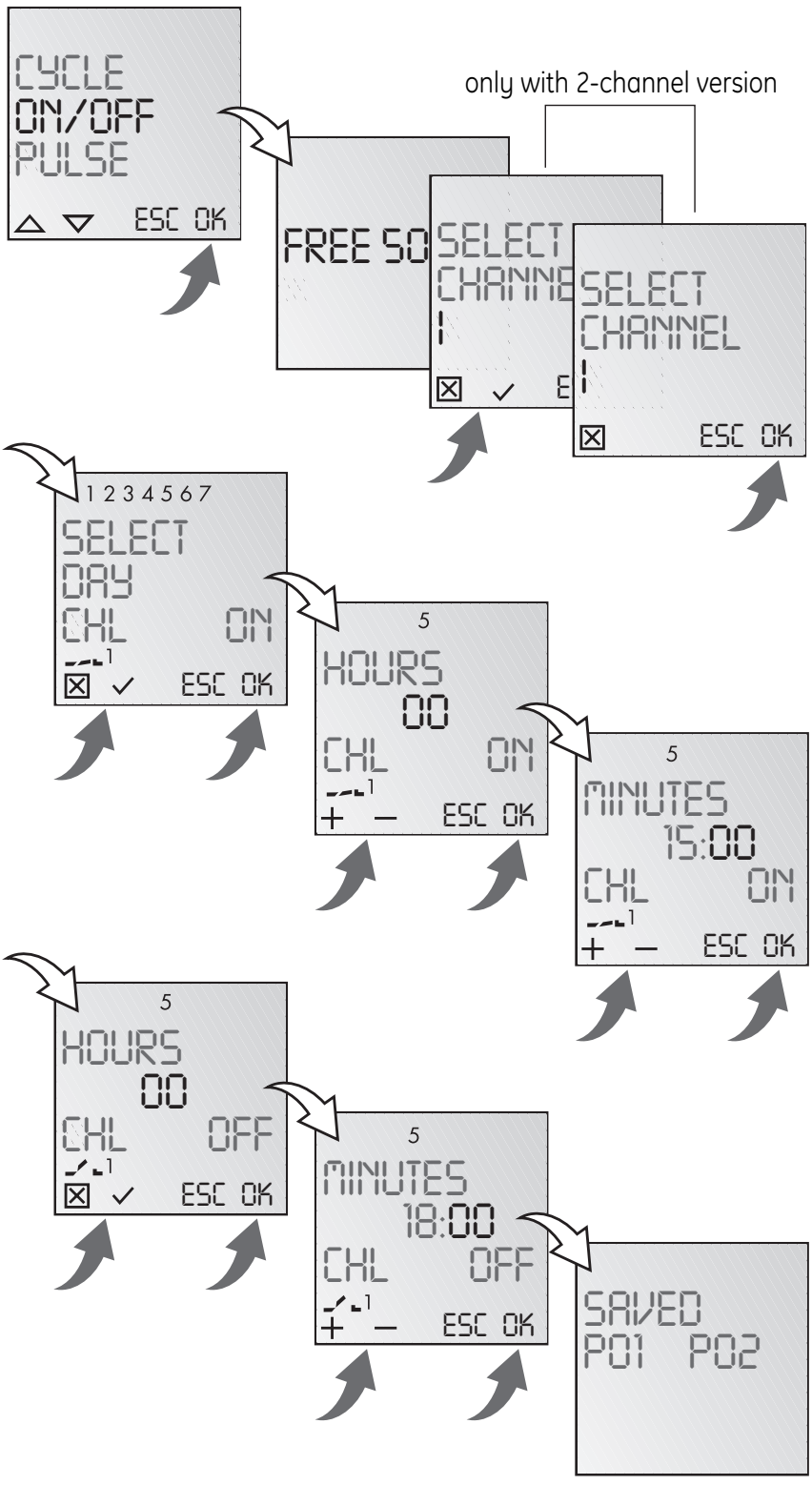
Weekly program



Info
The time switch has 50 memory spaces.

A date-related program can be produced under the HOLIDAY menu item. (see holidays program)

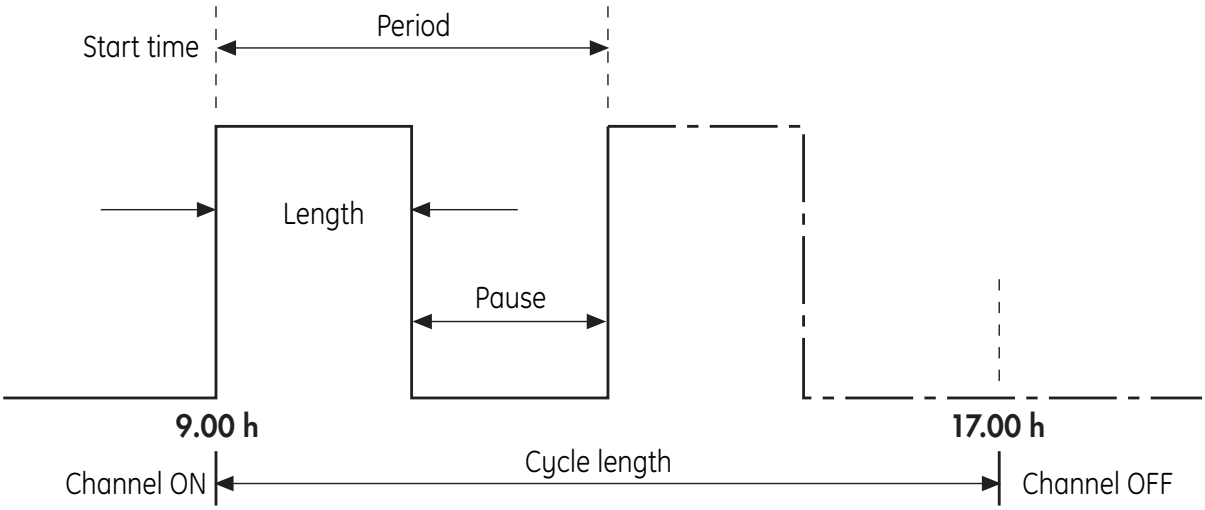
Ⓐ ON/OFF programming



Example
ON command for channel 1 at 3 pm. OFF command at 6 pm.

- Select NEW program and confirm with **OK**.
- The free memory spaces are briefly displayed.
- Select channel and confirm with **OK**.
- Select day block or individual day (block formation as desired) and confirm with **OK**.
- Enter hour for ON command (**+/-**) and confirm with **OK**.
- Enter minute for ON command (**+/-**) and confirm with **OK**.
- Enter hour for OFF command (**+/-**) and confirm with **OK**.
- Enter minute for OFF command (**+/-**) and confirm with **OK**.
- Program is saved.
- Program jumps to selection REVIEW, **NEW**, DELETE. Now additional programs can be created.

Ⓑ Cycle programming



A cycle switching command consists of:

- Start time
- Length = ON switching period
- Period = ON switching period + pause)
- Cycle length = Length of time between channel ON and channel OFF

Info

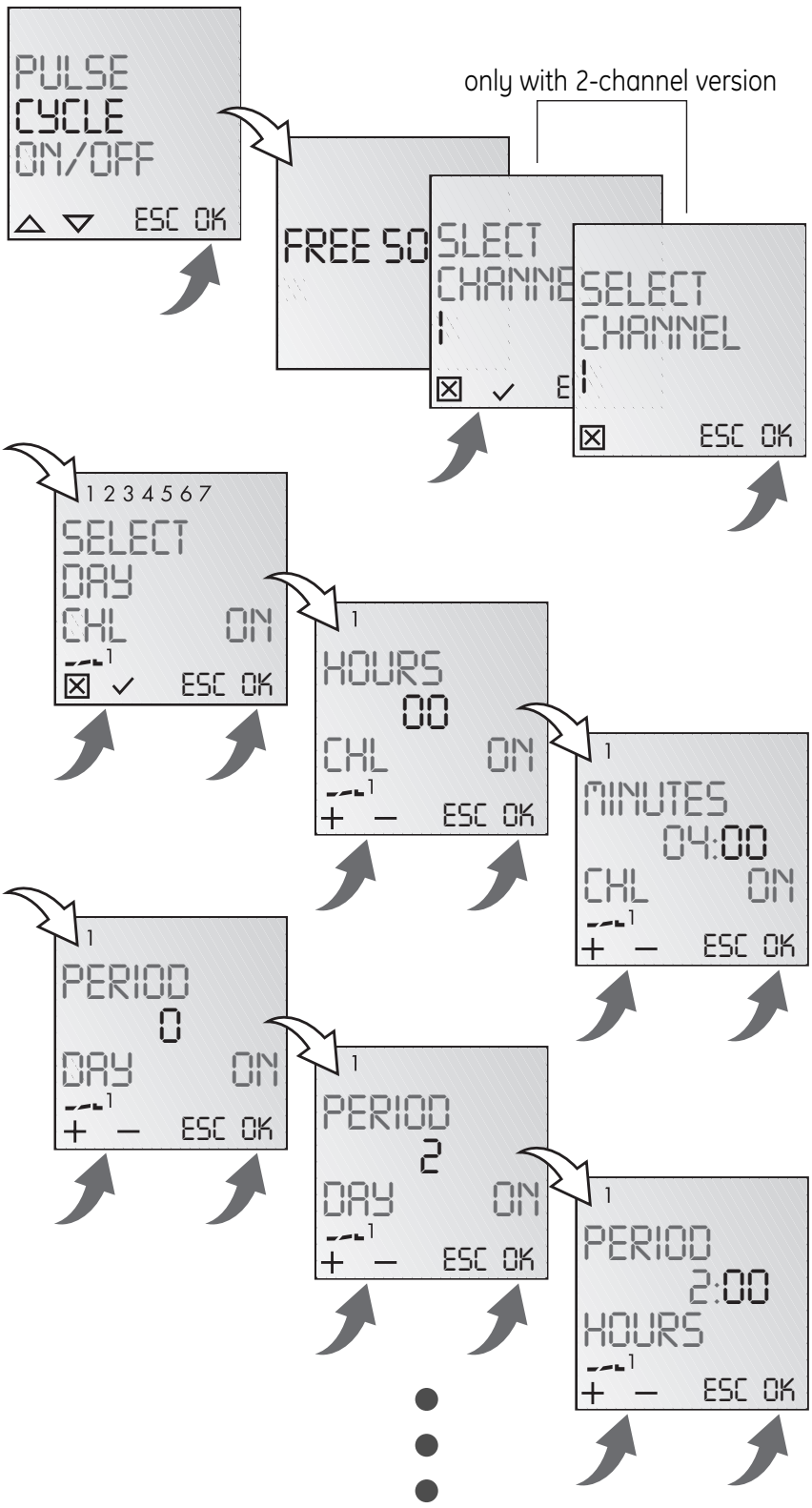
The time period between the start and end times must not be less than the period length.
An interlacing of cycle programs is not permitted.

Examples

The device is switched on for 10 minutes every 60 minutes between Monday 9.00 am and Friday 7.00 pm.

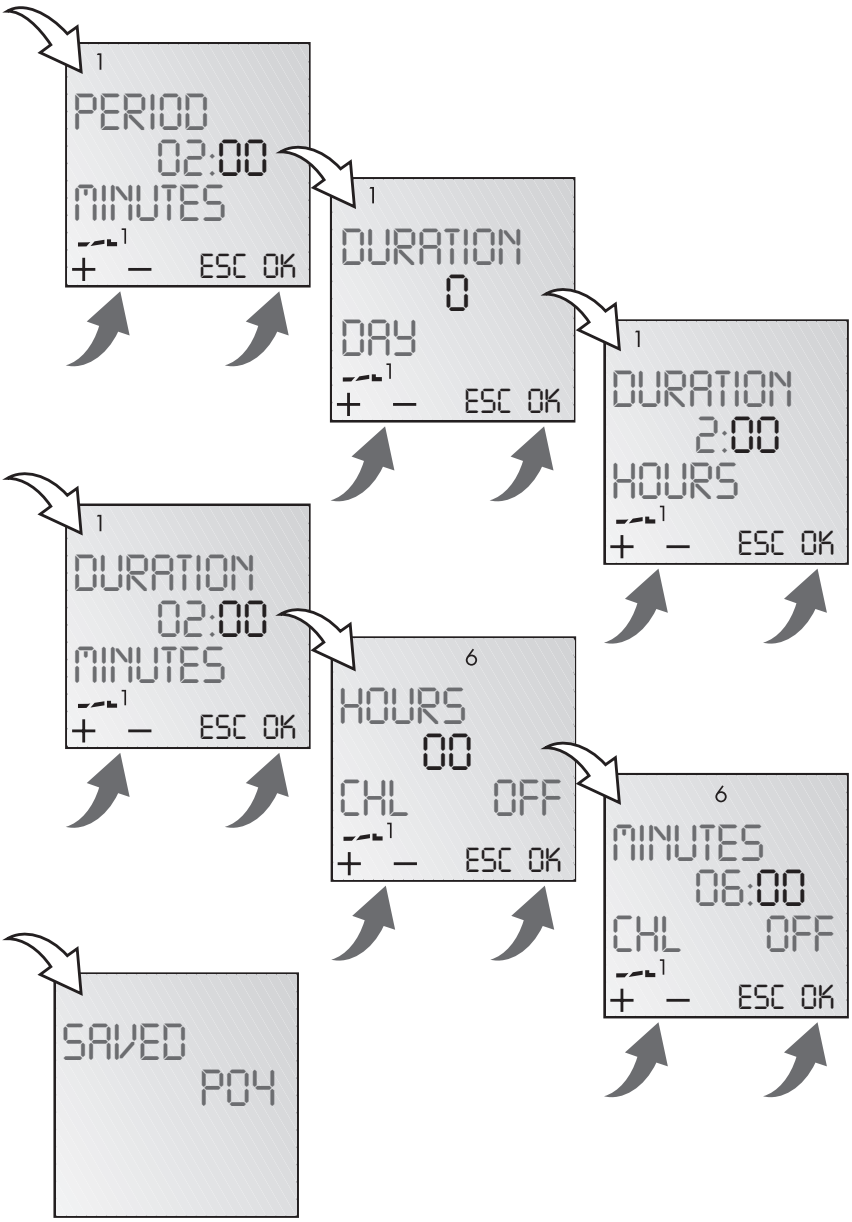
Start time Monday	9.00 am
ON switching period	10 min.
Cycle length	60 min.
End time Friday	7.00 pm

Ⓑ Cycle programming



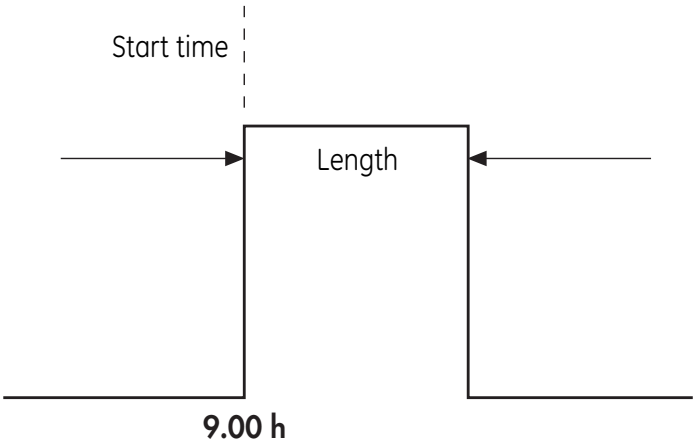
Example
Garden watering: Water for two hours every 2nd day. ON command for channel 1 at 4.00 am. OFF command at 6.00 am.

- Select CYCLE and confirm with **OK**.
- The free memory spaces are briefly displayed.
- Select channel and confirm with **OK**.
- Select day block or individual day (block formation as desired) and confirm with **OK**.
- Enter hour for ON command (**+/-**) and confirm with **OK**.
- Enter minute for ON command (**+/-**) and confirm with **OK**.
- Period:
  Enter days, hours, minutes or seconds and confirm with **OK**.



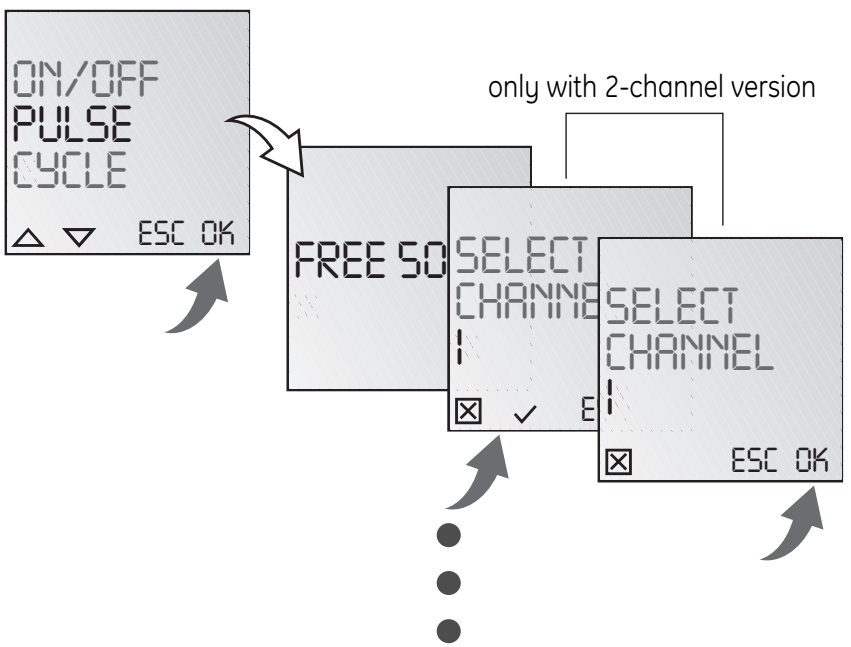
- Period of ON command: Enter days, hours, minutes or seconds and confirm with **OK**.
- Select day block or individual day (block formation as desired) and confirm with **OK**.
- Enter hour for OFF command (**+/-**) and confirm with **OK**.
- Enter minute for OFF command (**+/-**) and confirm with **OK**.
- Program is saved.
- Program jumps to selection REVIEW, **NEW**, DELETE. Now additional programs can be created.

Ⓒ Pulse programming



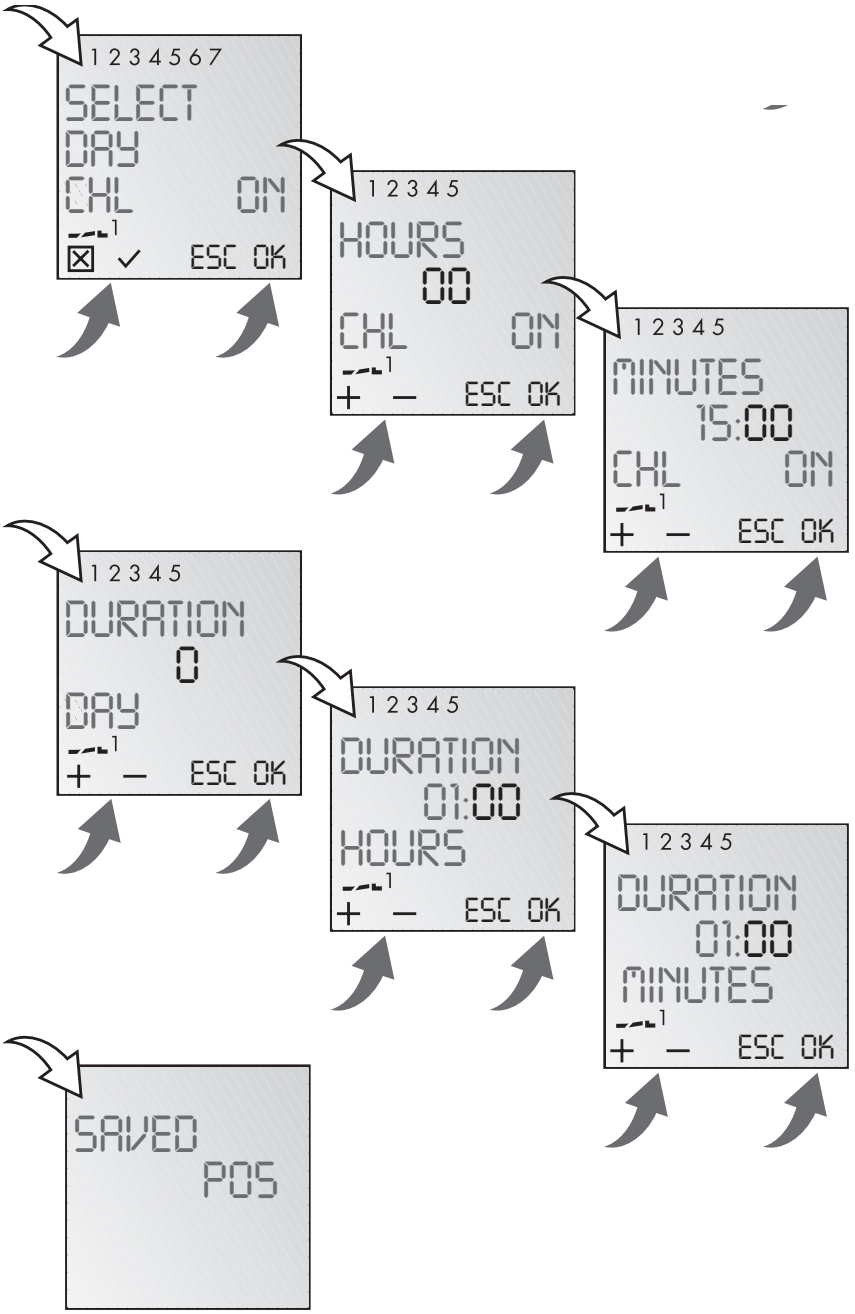
A pulse switching command consists of: · Start time
· Length = ON switching period
Shortest ON switching period = 2 sec

Example
Start time Monday to Friday 9.00 am
ON switching period 10 sec.



Example
Monday to Friday daily ON command for channel 1 at 3.00 pm. ON switching period 1 hour.

- Select PULSE and confirm with **OK**.
- The free memory spaces are briefly displayed.
- Select channel and confirm with **OK**.



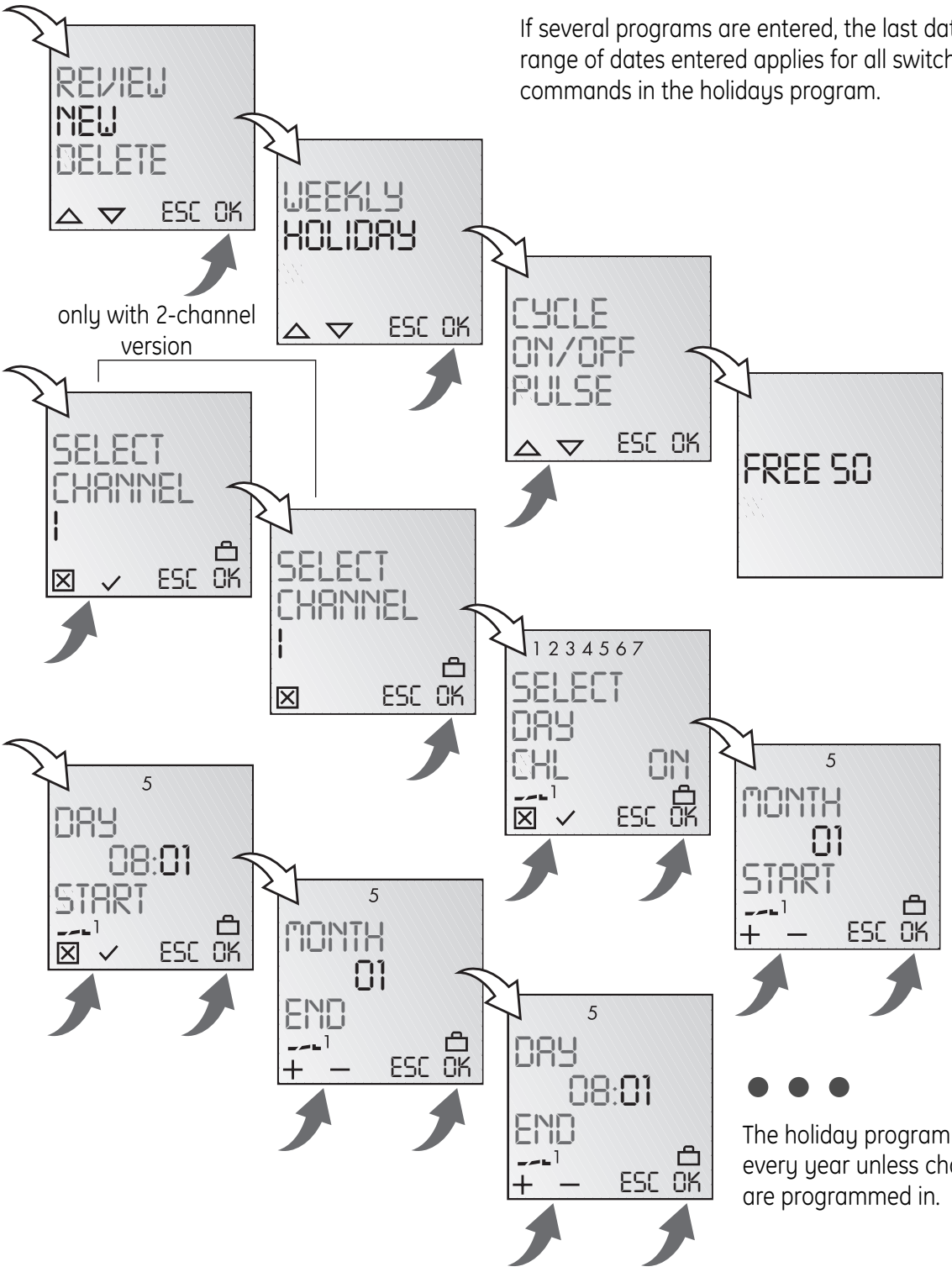
- Select day block or individual day (block formation as desired) and confirm with **OK**.
- Enter hour for ON command (**+/-**) and confirm with **OK**.
- Enter minute for ON command (**+/-**) and confirm with **OK**.
- Period of ON command: Enter days, hours, minutes or seconds and confirm with **OK**.
- Program is saved.
- Program jumps to selection REVIEW, **NEW**, DELETE. Now additional programs can be created.

Holidays program

Info

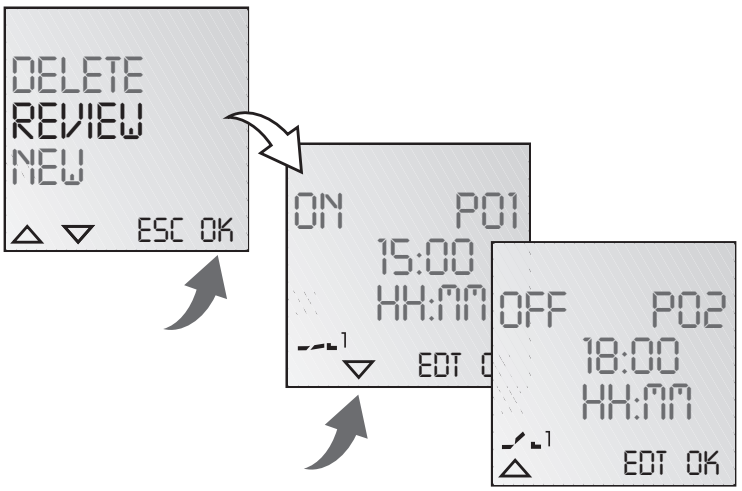
Only a date range can be entered.

If several programs are entered, the last date or range of dates entered applies for all switching commands in the holidays program.



The holiday program is run every year unless changes are programmed in.

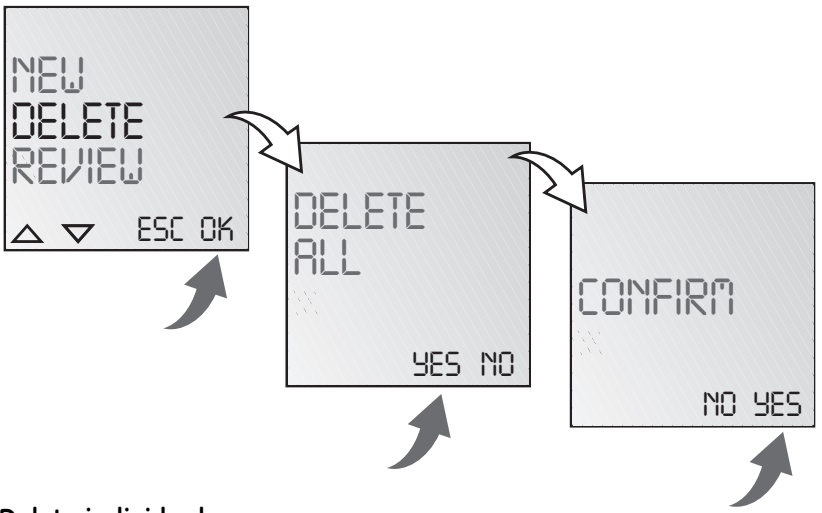
View, edit program



Info

- The program steps can be scrolled through with ▼ ▲.
- The respective program can be edited by pressing **EDT**.
  The procedure is the same as when creating a new program.

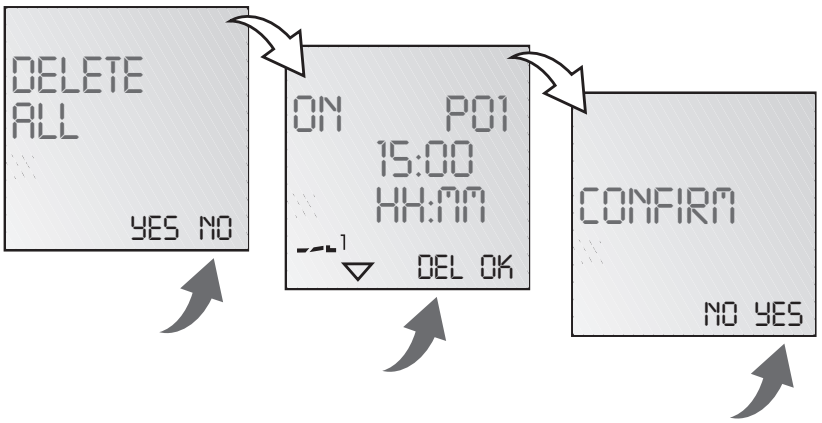
Delete all programs



Info

- It is possible to delete all programs with **YES**
- By pressing **NO**, individual programs can be deleted.

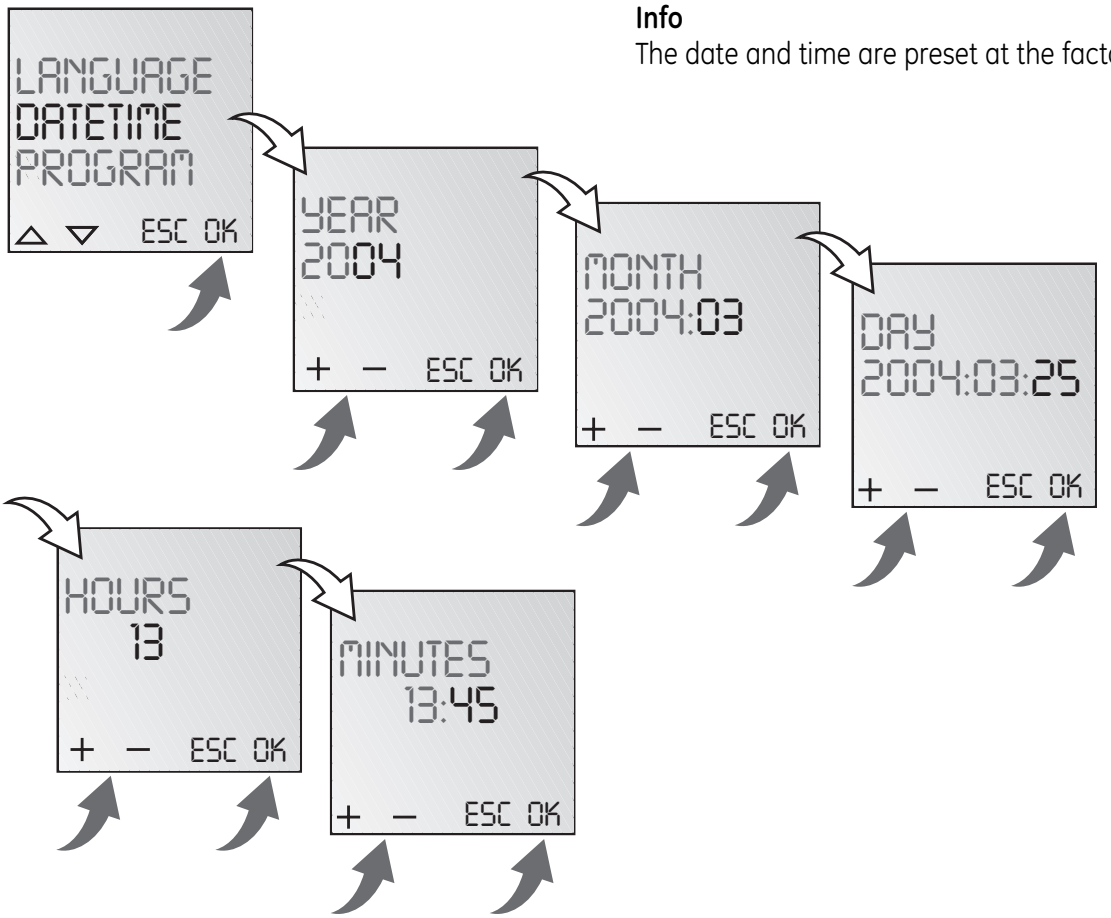
Delete individual programs



Info

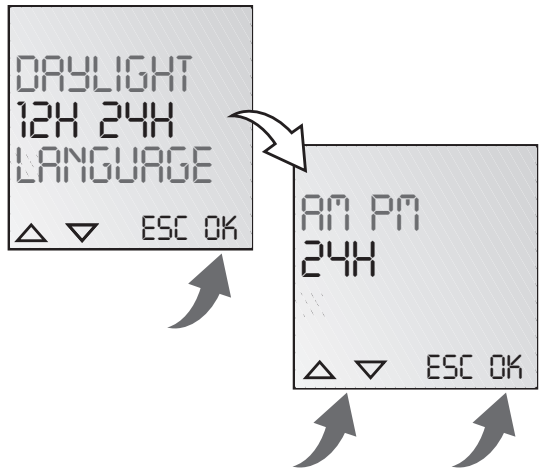
When deleting individual programs, all associated program steps are deleted (e.g. P01 ON and P02 OFF) or the entire cycle program is deleted.

Set date and time

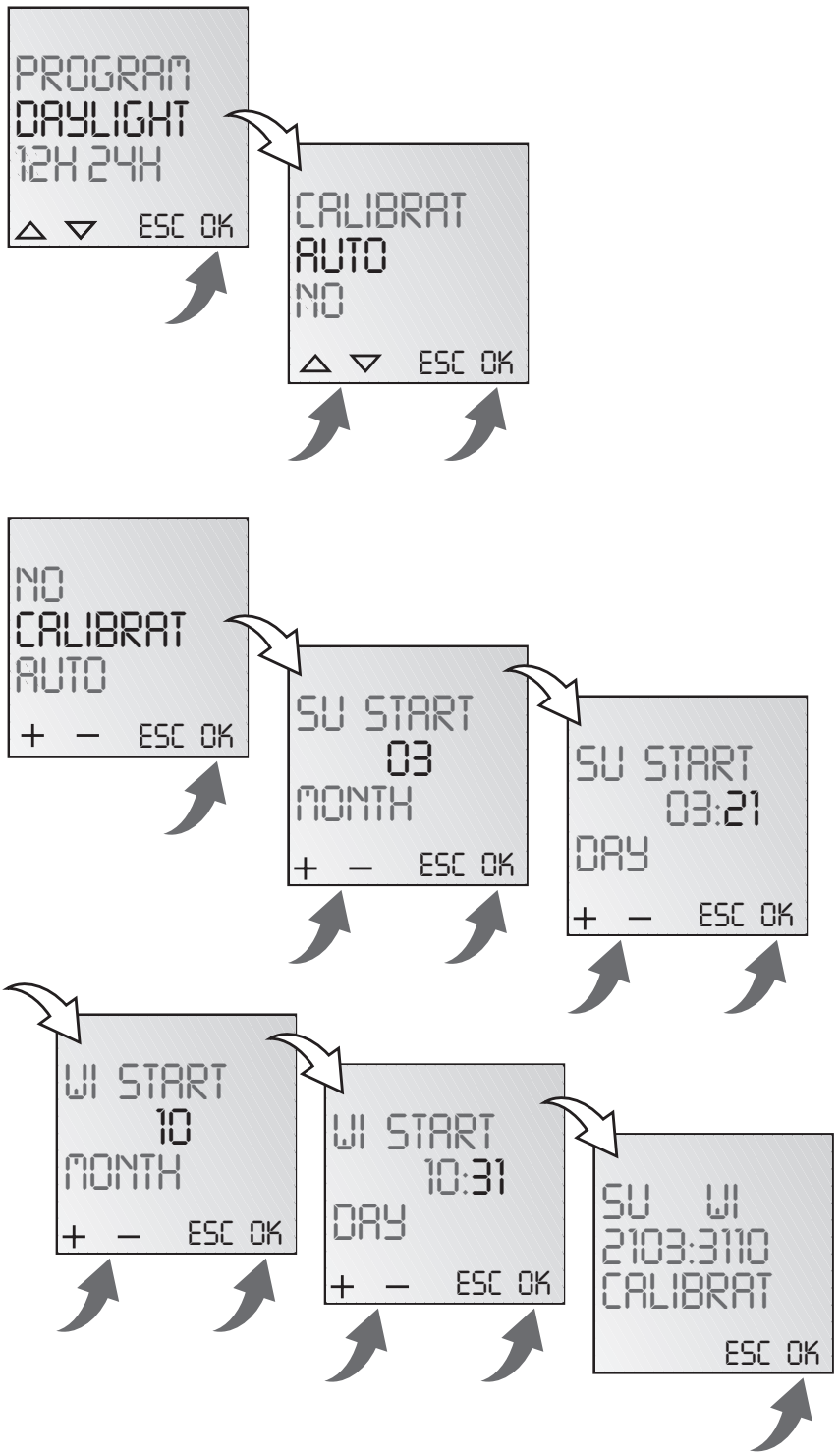


Info
The date and time are preset at the factory.

Set AM/PM (12-hour-) or 24-hour display



Switchover for summer/winter time



Info
The following settings are possible:

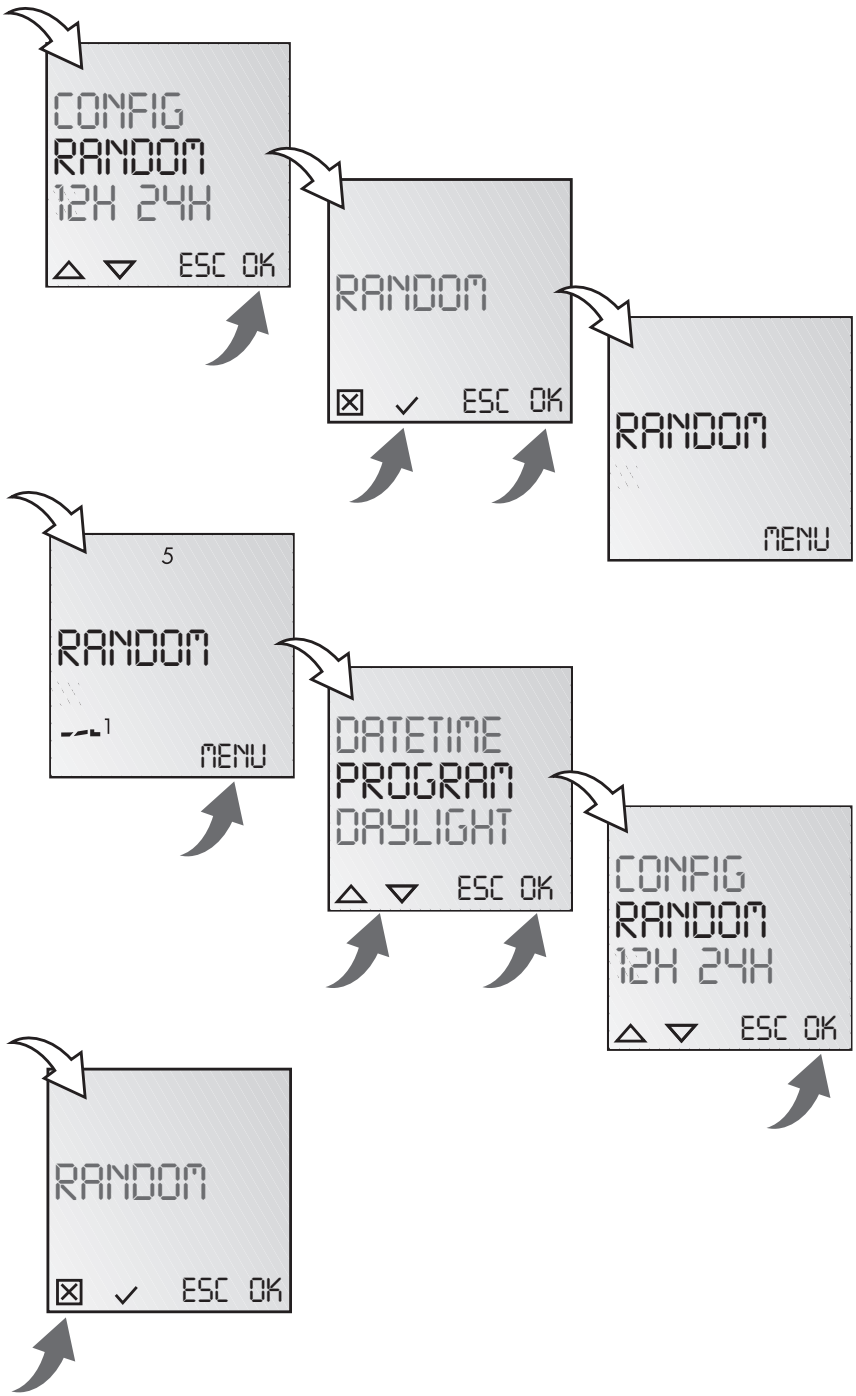
AUTO
Factory presetting of the legal specification. This is automatically recalculated for each year.

NO
No switchover

CALIBRAT
Programming. The start date of the summer time and winter time must be entered for this purpose. The factory presetting is overwritten.
The programmed summer/ winter time is automatically recalculated for each year.
The changeover takes place on the same specified day of the week in the same week of each month.

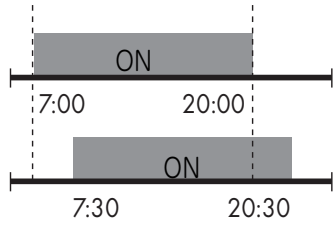
Example
03/21 Start summer time
10/31 Start winter time

Random switching program



Info

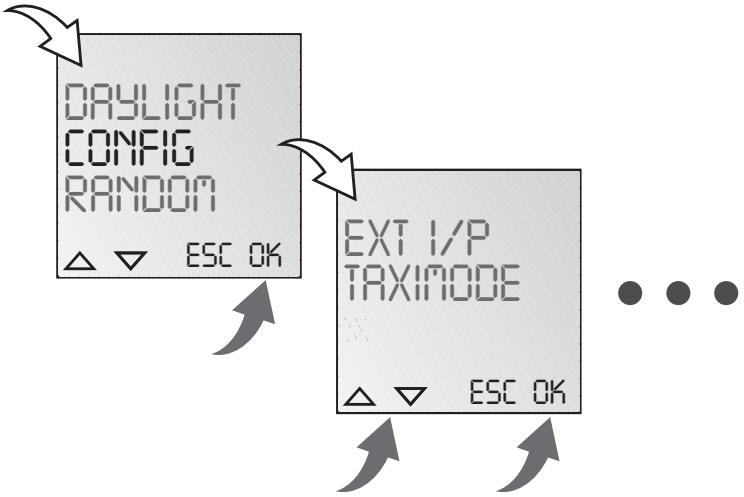
A random switching program is started by selecting RND.
The programmed activation command is delayed in such instances by a variable (random) period of time of 0-30 minutes.



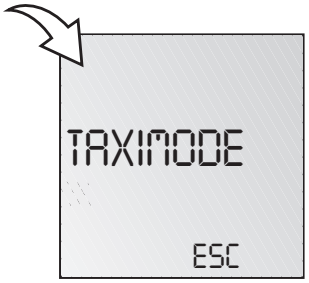
Ending the random switching program:

- RND appears on the display.
- Press MENU.
- Select PROGRAM and confirm with **OK**.
- Select RND and confirm with **OK**.
- End the program with ☒.
- The clock will then return to auto mode.

Configuration

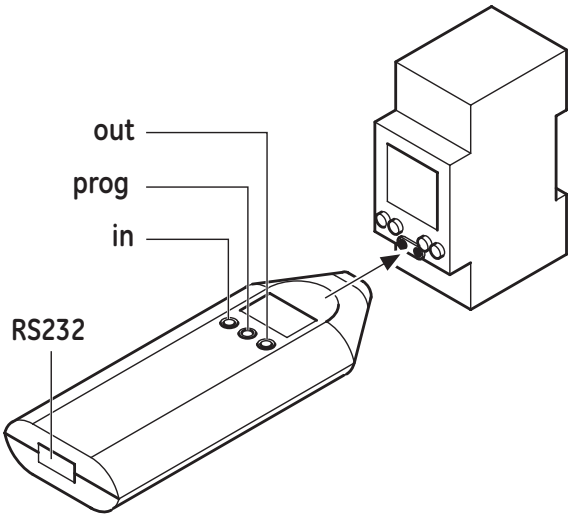


Taxi mode



Info
Programs can be replaced via the IR interface using a taxxi module. For this purpose, the device must be in TAXIMODE and must be energised.

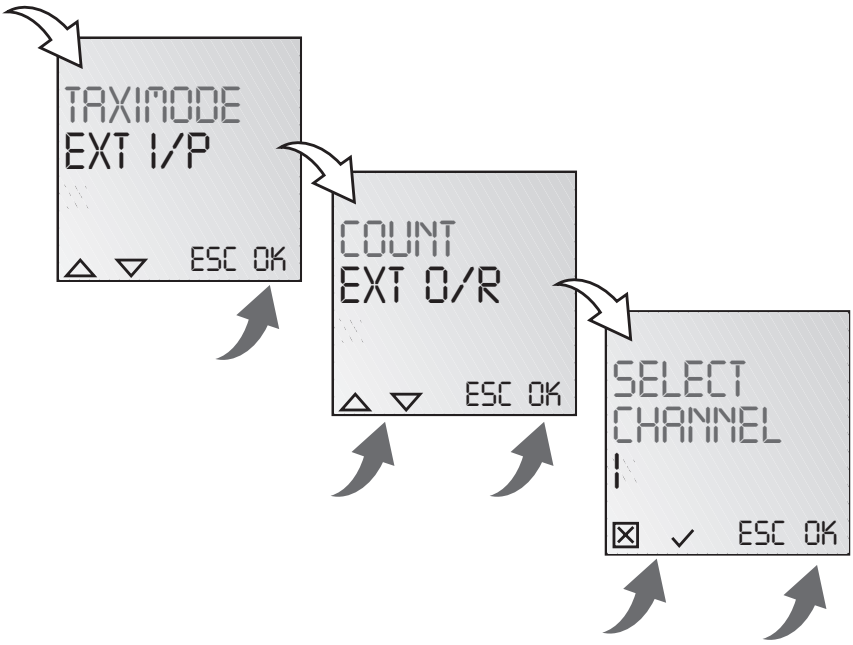
TAXIMODE can be ended via **ESC**.



taxxi module
prog = program selection
in = import program
out = export program

- Use **prog** to select a program number.
- Press **in** or **out** depending on whether a program is to be imported or exported.
- Hold taxxi module vertically above the IR interface.
- Pressing **in** or **out** again starts the transfer.
- **Er2** indicates that problems occurred during the transfer. Go back by pressing **prog**.

External input – manual switch

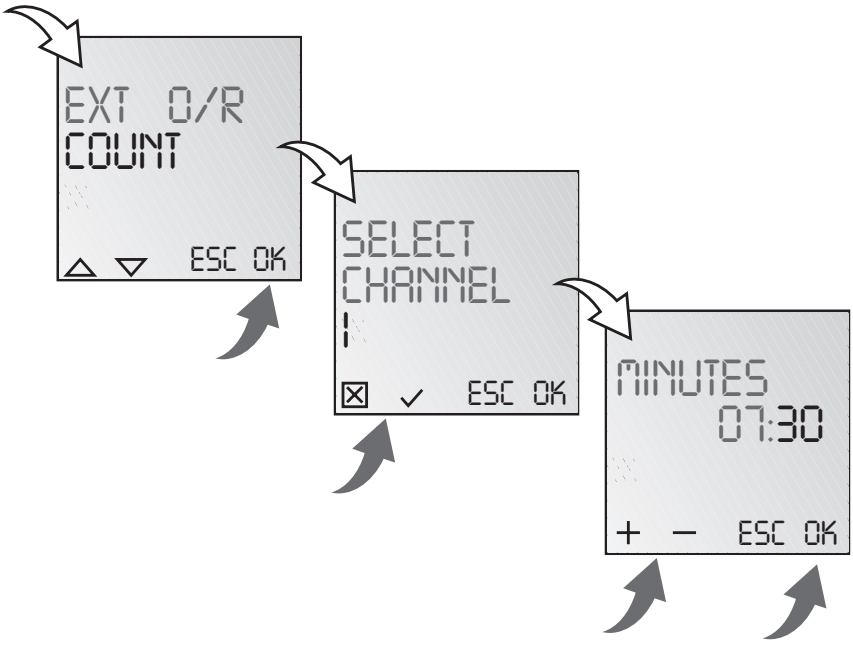


Info
An appropriate channel is assigned to an external button by selecting EXT O/R.

When the button is pressed, a switching command is issued and remains in effect until the button is next pressed or the next automatic switching command is issued.

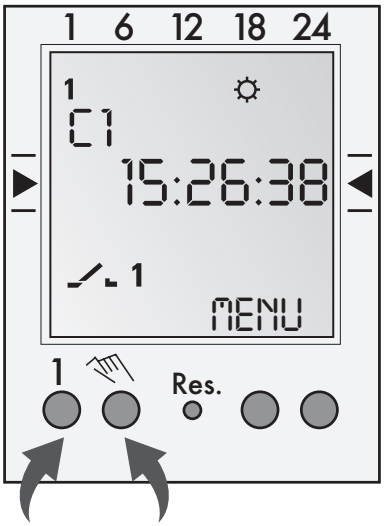
Example:
Press external button. Light ON until the next programmed OFF command **or** an OFF command issued by again pressing the manual switch.

External manual switch – process timer (max. 20 minutes)



Info
The time for the process timer is set by selecting COUNT. This is started by pressing an external button.
The process time is started again from "0" by pressing the button again.
The time is reset to "0" by again selecting COUNT.

Operating mode



Info
Left-hand button = Channel 1
Right-hand button = Channel 2 (only with 2-channel version)

Pressing 1 x = FIX ON = continuous ON
Pressing 2 x = FIX OFF = continuous OFF
Pressing 3 x = return to Auto mode

FIX ON: FIX 1

FIX OFF: FIX 1

AUTO: (no display) programmed switching times

Technical Data

Dimensions H x W x D	45 x 35 x 60 mm
Weight g (approx.)	170
Supply voltage	see imprint on device
Power consumption	5 VA
Switching capacity	
- ohmic load (VDE, IEC)	16 A/250 VAC
- inductive load cos φ 0.6	8 A/250 VAC
- Incandescent lamp load	1,000 W
Switching output	potential-free
Switch contacts	1 or 2 changeover contact(s)
Ambient temperature	-13°F to 131°F (25°C to +55°C)
Protection class	II
Accuracy	typ. ±2.5 s/day at 68°F (20°C)
Reserve power	3 years from factory at +20°C (20°C)
Shortest switching time	1 min.
Memory spaces	50
Block formation of day of the week	fixed/free selection
Switching status display	yes
Sealable	yes