GB

2.1 **Assembly**

Fit the time switch
- on a DIN rail
- optional wall surface-mounting
  Surface-mounting set for 2 and
  3 module spacings
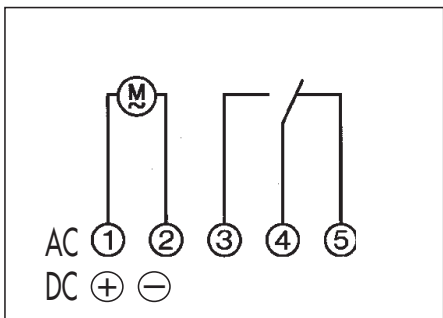 Article No. 03.53.0083.2
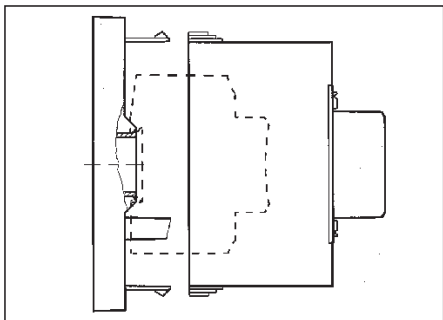
2.2 **Putting into operation**

The time and date are set at the factory.
The time switch is in Energy-saving mode.
Only the colon flashes.

☞ Press any key:
- The time switch is actived
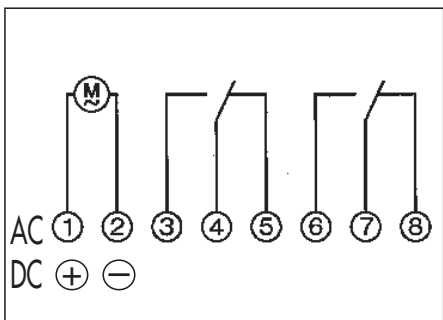- It displays the time (day of the week)

2.3 **Connection**

See information on the unit!

☞ Press any key to activate the time switch
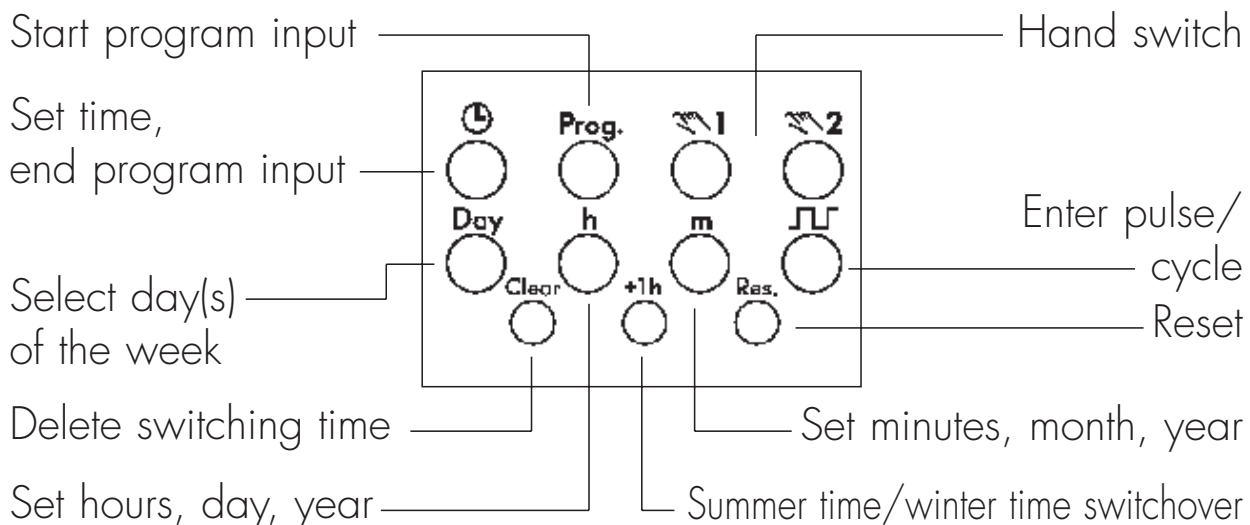- the time and date is displayed

Note:

If no key is pressed the time switch is
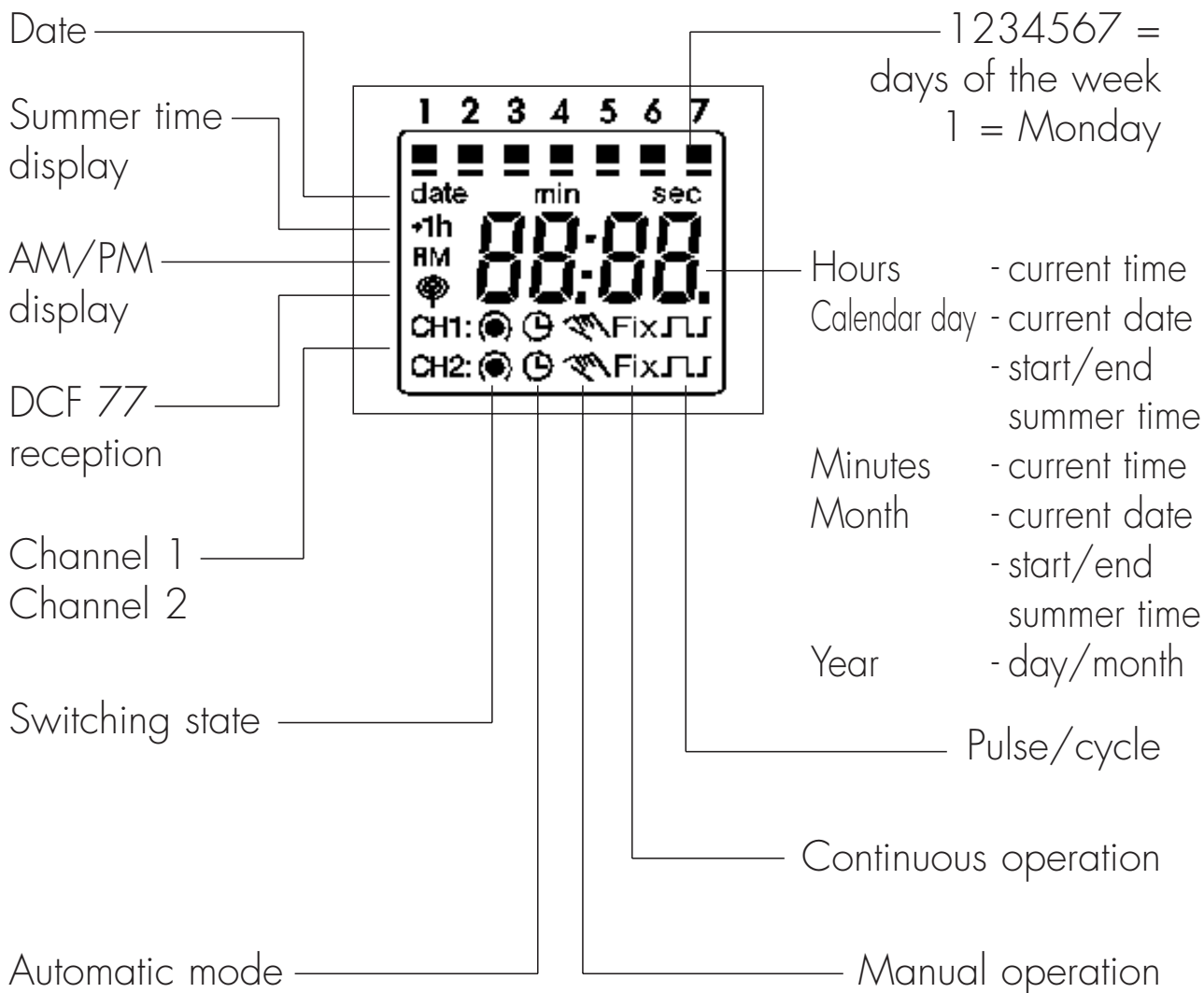automatically activated after approx
1 - 2 minutes.

Safety instruction:
- When operating the clock safety low
  voltage, only safety low voltage may
  be connected.
- When operating the clock with function
  low voltage, mains voltage (230 ~) or
  function low voltage may be connected.
  The connection of safety low voltage is
  not admissible in this case.

AC ① ② ③ ④ ⑤
DC ⊕ ⊖

AC ① ② ③ ④ ⑤ ⑥ ⑦ ⑧
DC ⊕ ⊖

Start program input — Hand switch

Set time,
end program input

Select day(s)
of the week

Delete switching time

Set hours, day, year

Enter pulse/
cycle

Reset

Set minutes, month, year

Summer time/winter time switchover

4. Display

Date

Summer time
display

AM/PM
display

DCF 77
reception

Channel 1
Channel 2

Switching state

Automatic mode

1234567 =
days of the week
1 = Monday

Hours — current time
Calendar day — current date
— start/end
summer time
Minutes — current time
Month — current date
— start/end
summer time
Year — day/month

Pulse/cycle

Continuous operation

Manual operation

GB

The selections correspond to Central European Time. The time switch offers 3 Operating modes. The date and time, and also the Operating mode AU are set.

Operating modes:

- **AU**   **Automatic summer time controller switchover see 6.2.1**

    The switchover occurs on the dates defined by the legislator.

- **cHA**   **Weekday-related summer time controller switchover, see 6.2.2**

    You enter the start and end dates of summer time which applies to your location/country.
    e. g.   The first Sunday in April of the current year (start of summer time)
             The last Sunday in October of the year (end of summer time)
    In the following years, changeover always occurs on the right day of the week in the correct calendar week.

- **no**   **No changeover, see 6.2.3**

AM/PM switch-over
Switch clock is in current operating mode

1. Press h and keep pressed
2. – Press Res once
   – all segments are displayed
   – after approx. 1 second the following appears:
      AM, 12.00 and 3 (Wednesday)

      Operating mode AU is active = works setting
3. Release h
4. Select operating mode as required, see 6.2.1 or 6.2.2 or 6.2.3
5. Set the current time of day and weekday, see 6.1

Note:

You can exit/conclude any adjustments, changes you make at any time with the key ⏰ .

6.1 Time and day of the week
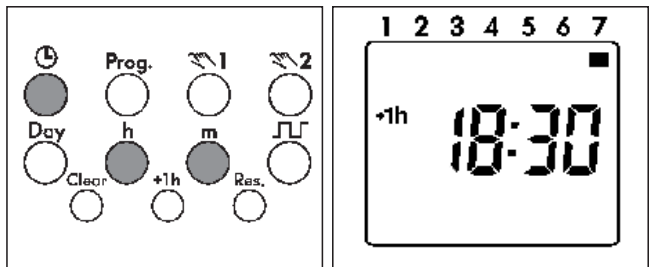
👉 Press the ⏰ key once

Set the time:

With the h key – hours
With the m key – minutes

Note for weekly time switch:

If the Operating mode

no = no change
      - see 6.2.3
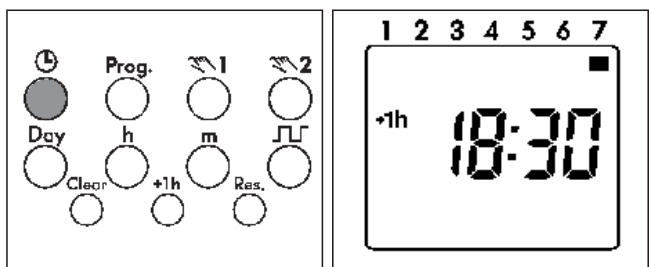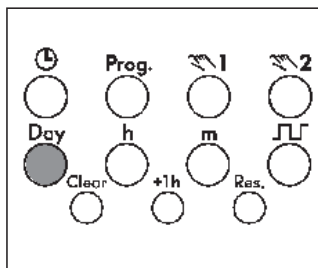
was selected, the day of the week must **now** be set.
With the Day 1 - Monday
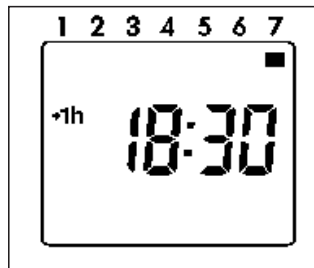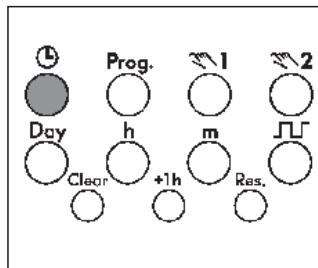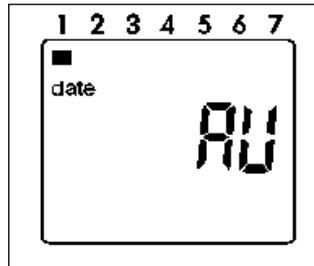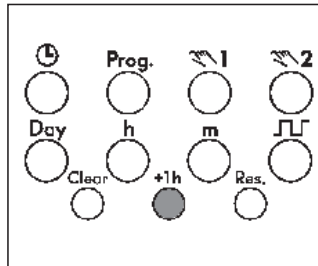key select: 2 - Tuesday
                3 - Wednesday
                :
                7 - Sunday

👉 Press the ⏰ key once.
The input is ended.

6.2.1 **AU** or **6.2.2 cHA** or **6.2.3 no**

6.2.1 AU = Automatic changeover

☞ Press the key 🕒 once

☞ Press the + 1h key 1 once, **AU** appears
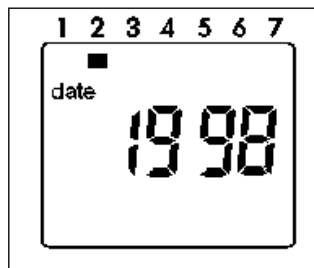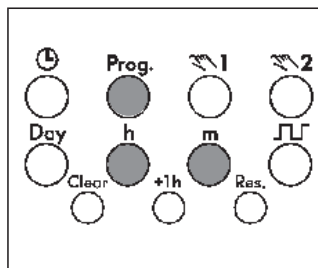
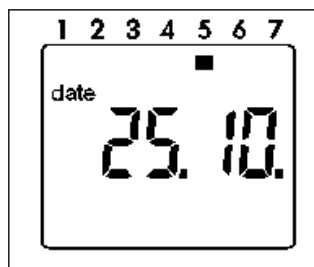☞ Press the Prog key once
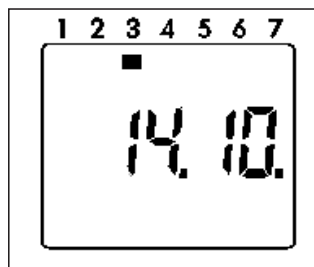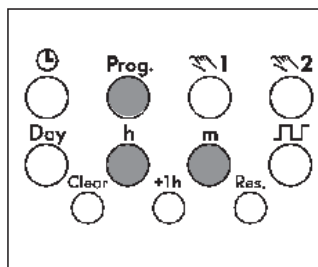
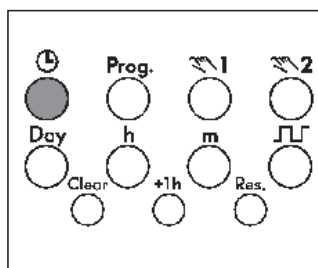**Set the current year:**
With the m key or the h key

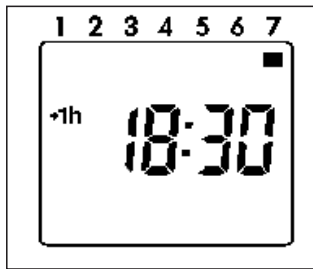

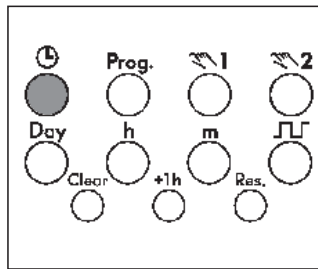☞ Confirm with the Prog key

☞ **Set the current month and day:**
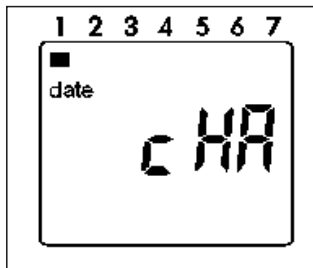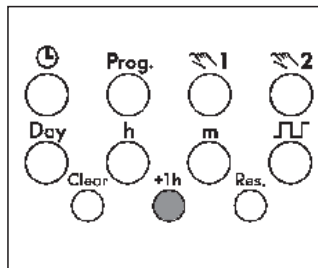With the m key – calendar month
With the h key – calendar day

Note:
With the Prog key (press once or twice), read the date for the start e.g. 29.03. and end e.g. 25.10. of summer time.
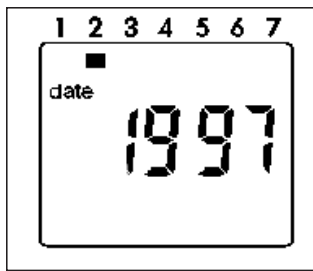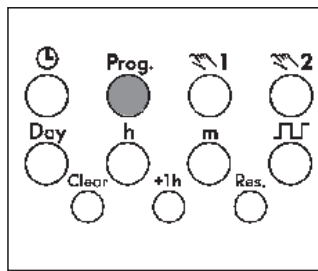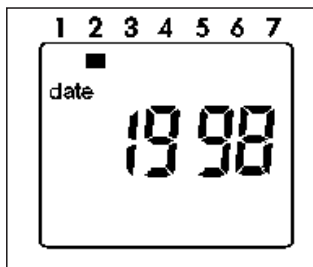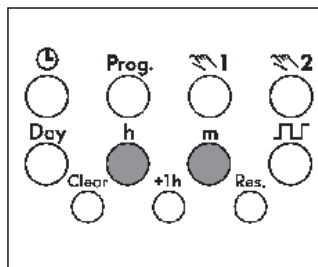

☞ Press the 🕒 key once.
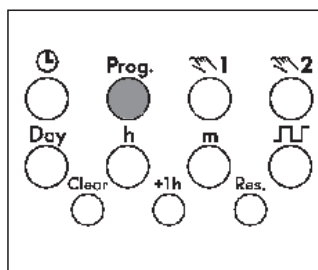The input is ended.

Press the ⏰ key once

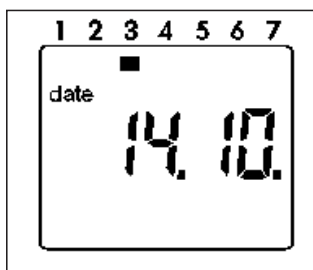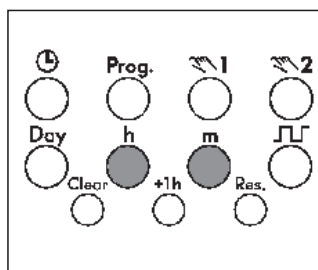Press the + 1h key as often as necessary until **cHA** appears
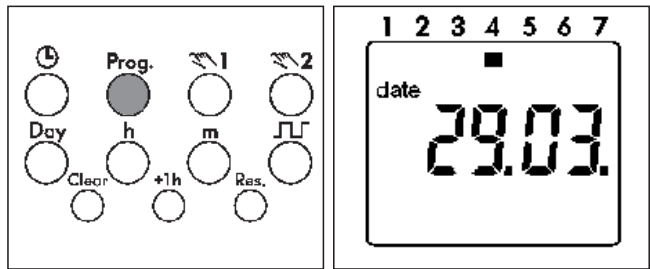
Press the Prog key once

Set the current year:
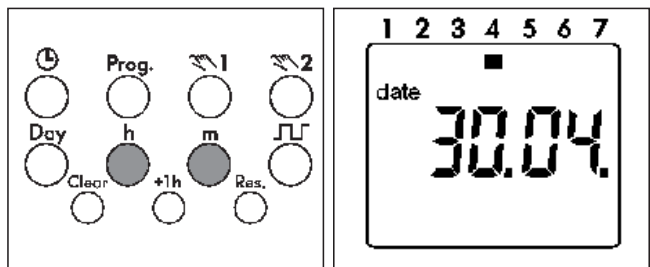With the m key or the h key

Confirm with the Prog key

Set the current month and day:
With the m key – calendar month
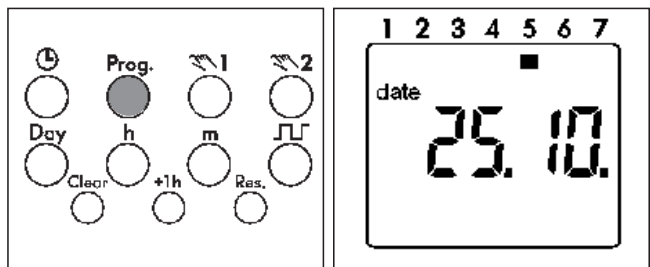With the h key – calendar day

Confirm with the Prog key
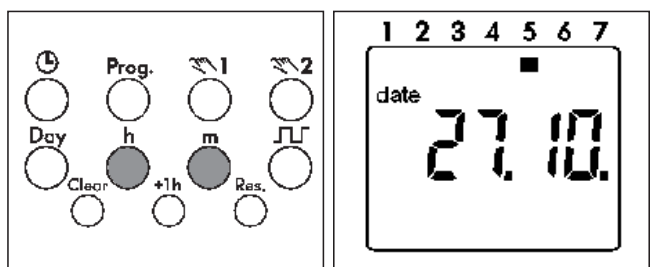The start of summer time is displayed.

Set the individual summer time start:
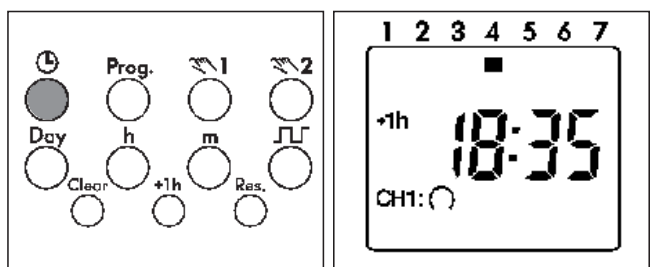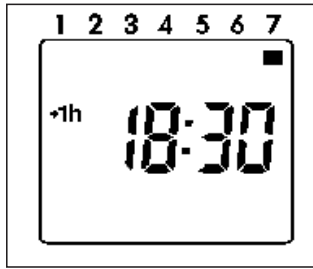With the m key – month
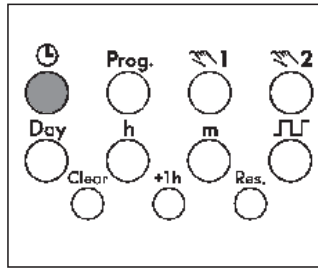With the h key – day

Confirm with the Prog key
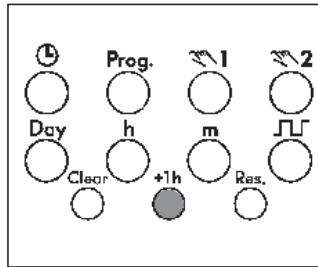
Set individual summer time end:
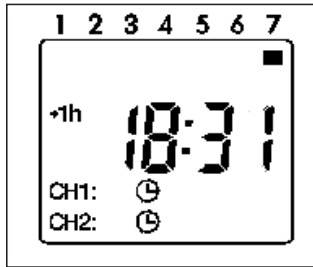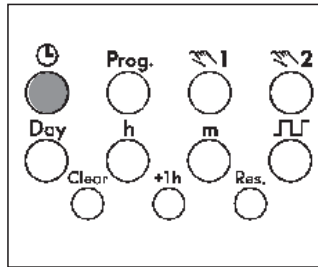
With the m key – month
With the h key – day

Press the ⏰ key once.
The input is ended.

Press the ⏱ key once

Press the + 1h as often as necessary until **no** appears. The time switch operators without a date!

Press the ⏱ key once. The input is ended.

Note:

Select day of the week see 6.1

You determine the switching times and the switching state for the relevant switching output (channel.) Symbol: CH1: ⊙ (ON) = Channel 1
CH2: ○ (OFF) = Channel 2

These assignments are possible:
- Switching commands **only** for channel 1
- Switching commands **only** for channel 2
- The same switching commands for channel 1 and channel 2 (the switching time and switching state are identical)
- The same switching time for channel 1 and channel 2 but with a different switching state.
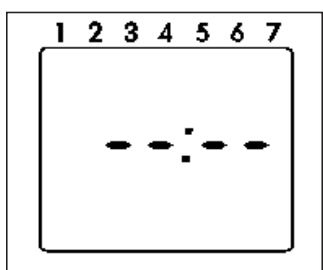
Select free memory location:
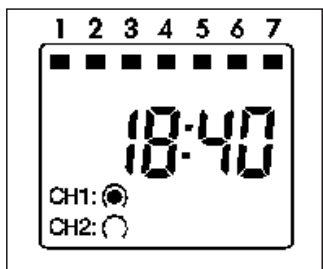Press the Prog key as often as necessary until −−:−− appears.
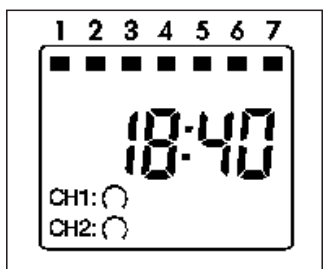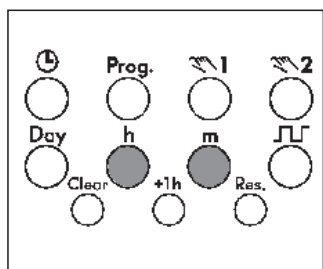
Set the switching times:
With the m key − minutes
With the h key − hours

For weekday adjustment, see:
Block formation of weekdays, Point 8
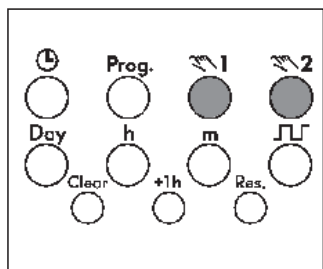
Set the switching state:
With the 🖐 key
⊙ (ON) or ○ (OFF)

Note:
The switching state for CH1 or CH2 can be deactivated.
No symbol − no switching.

Press the Prog key once. The input has ended. A free memory location is displayed – for other settings or

Press the key 🕐 once. The input is ended.
The display shows the current time.

Defined combinations of weekdays or individual days
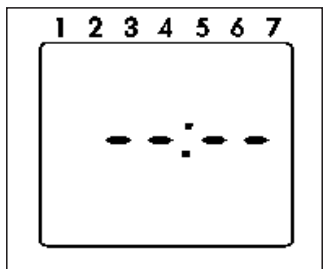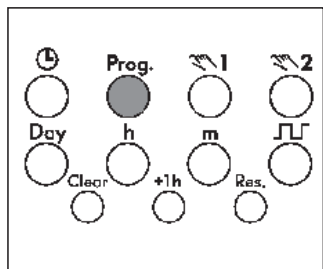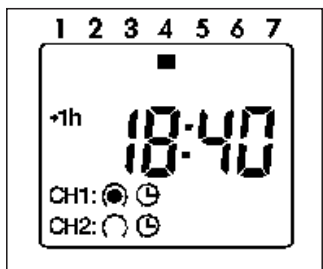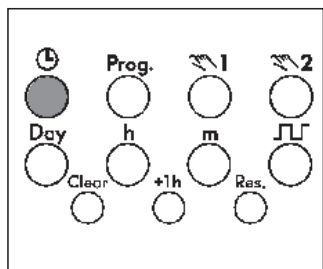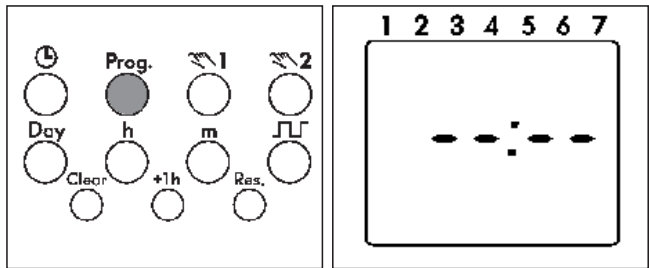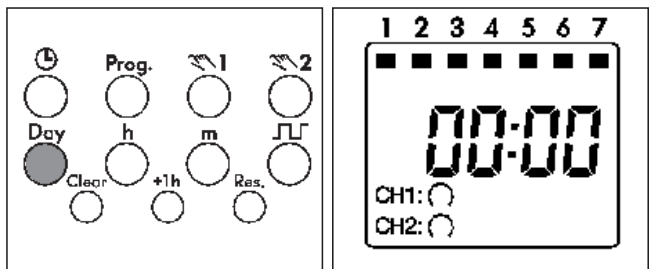
You determine the weekdays for your switching program.
1 - Monday, 2 - Tuesday, 3 - Wednesday ..., 7 - Sunday

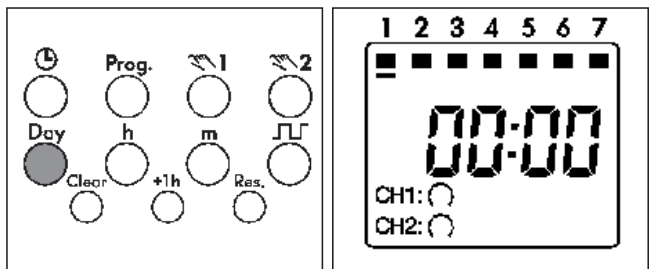**Example:** Monday ... Friday (8:00 ON; 22:00 OFF)

Select free memory location:
Press Prog key as often as necessary until ––:–– appears

Press the Day key once
All 7 days of the week are activate

Activating/deactivating days of the week:
Jog the Day key stepwise

1	2	3	4	5	6	7
–	–	–	–	–	–	
–	–	–	–	–		
					–	–
–						
	–					
		–				
			–			
				–		
					–	
						–

Note:
Enter the switching times and the switching state ◉= ON; ◯ = OFF for the relevant switching state (channel). For standard switching commands, see 7.
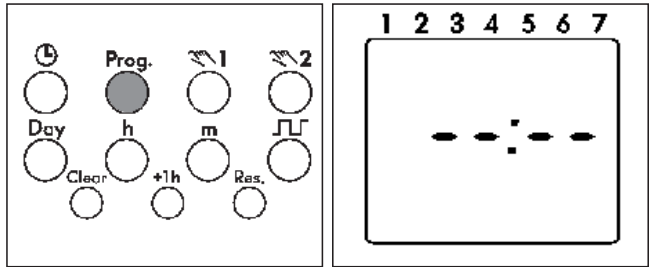
Press the Prog key once.
The input is ended.
A free memory location is displayed - for further settings or
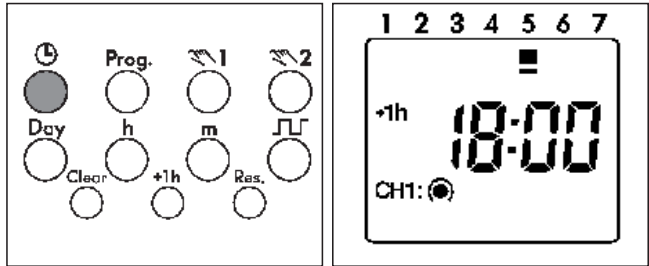
press the ⏱ key 1once.
The input is ended.
The display shows the current time.

Note:
After the procedures
- read, modify or delete the time, date, switching program
- DCF synchronisation
- restoration of mains power

  the switching state of the time switch is updated automatically.

- You can read the program contents stepwise
- You can change or overtype the program contents
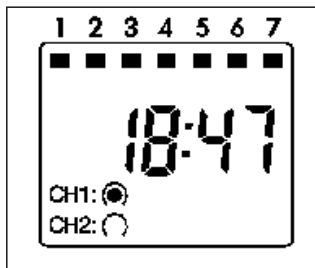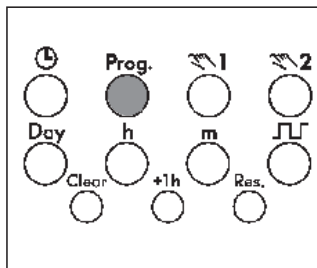- You can delete the program contents
- You can delete the date and time
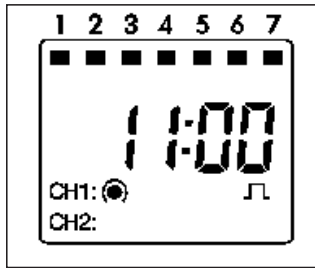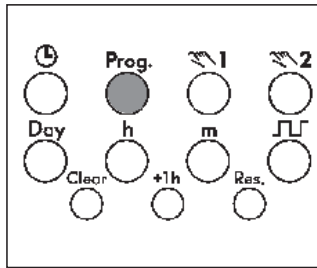
Read

☞ Press the Prog key step by step
Each individual content is displayed until the end of the program. Then:
- One free memory location
  −−:−−
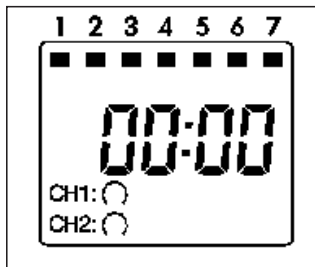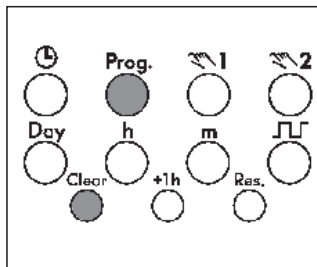- One digit (free memory locations) (ex. Fr 10)

Change

☞ Press the Prog key step by step as far as the switching command/contents which you want to change/overtype.
Change the switching command/contents:
As described in
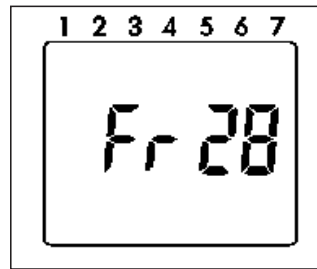8.　　Weekday block formation

Delete - individual switching commands

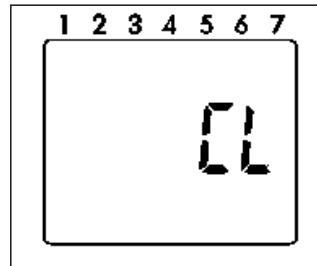☞ Press the Prog key step by step as far as the switching command/contents which you want to delete.

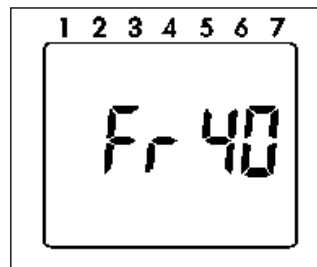☞ Press the Clear key once. This switching command is deleted.

GB

Delete - All switching commands

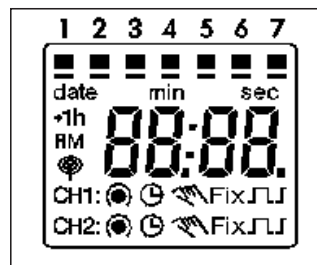☞ Press the Prog key as often as necessary until FRxx appears

Fr 28

☞ Press the Clear key once. CL is in the display

CL

☞ Press the Clear key and hold it down. **All memory locations are deleted!**

The display shows the number of the max. memory locations.

Fr 40

Reset

☞ Press the Reset key once

The set date and time are reset.

The factory setting
AU = automatic s/w-
time changeover is active
(31.12.1997, 00:00)

All segments are visible for approx. 2 seconds, then 00:00 appears.

AU = automatic s/w time changeover
See point 5 and 6 for setting the current date.

You change – manually – the current switching state.
However, the individually set switching program is preserved.
⟋ 1 for channel 1
⟍ 2 for channel 2

⏲ = automatic	⟍ = Manual mode	FIX = continuous operation
○ ⏲ = OFF	◉ ⟍ = ON	◉ FIX = Continuous ON
◉ ⏲ = ON	○ ⟍ = OFF	○ FIX = Continuous OFF
The switching state corresponds to the entered program.	You change – m a n u a l l y – the current switching state. The next switching command in the program is executed automatically again.	You change – m a n u a l l y – the current switching state. Only with the ⟍ key do you switch from continuous operation back to Automatic mode.

	1 channel daily program	**1 channel weekly program** **2 channel weekly program**
Dimensions (H x W x D) mm	45 x 36 x 60	45 x 36 x 60
Distributor cut-out mm	46 x 36	46 x 36
Weight g (approx.)	170	170
Connection	see unit imprint	see unit imprint
Power consumption:	see unit imprint	see unit imprint
Switching capacity at 230 V AC		
– ohmic load (VDE, IEC)	16 A/250 V AC	16 A/250 V AC
– inductive load cos φ 0,6	2,5 A/250 V AC	2,5 A/250 V AC
– glow lamp load	1000 W	1000 W
Switching output	potential-free	potential-free
Switching contacts	1 or 2 changeover contacts	1 or 2 changeover contacts
Protection class	II	
Protection type	IP 20	
Running accuracy	± 2.5 s/day at +20°C	± 2.5 s/day at +20°C
DCF 77 radio operation	–	–
Running reserve type	Lithium	Lithium
Running reserve	3 years from factory	3 years from factory
Shortest switching time	1 minute	1 minute
Programmable	every minute	every minute
Memory locations	12	20/30
Switching preselection	yes	yes
Hand switch	Automatic/preselection Fix ON Fix OFF	Automatic/preselection Fix ON Fix OFF
Switching state display	yes	yes
Block formation of weekdays	–	fixe assignment
Summer/winter time switchover	automatic/freely selectable	automatic/freely selectable
Connection type	captive +/− screw terminals	captive +/− screw terminals
Ambient temperature	- 25°C … + 55°C	- 25°C … + 55°C
Led sealable	yes	yes