

Programming manual SC 74, SC 78



Picture: SC 74.10

- 1 ⇒ Monday
- 2 ⇒ Tuesday
- 3 ⇒ Wednesday
- 4 ⇒ Thursday
- 5 ⇒ Friday
- 6 ⇒ Saturday
- 7 ⇒ Sunday
- ↵ ⇒ Channel ON
- ↵ ⇒ Channel OFF
- ↵ ⇒ Impulse

In mode AUTO manual switching possible by pressing relevant key.

Programming

Key functions

- [Menu] Selection of programming modes
AUTO → 1..7 → DATE → ? → Ⓞ → S/W →
 └─SP─┘
 1..7 → DATE → AUTO...
- [CL] Cancelling of inputs in modes
 └─SP─┘
 1..7, DATE, ?, S/W, 1..7 DATE
- [◆] In modes 1..7, DATE, Ⓞ, S/W, 1..7 DATE:
Change flashing digit resp. position.
In mode ?:
Change selected inputs.
- [▶] In modes 1..7, DATE, Ⓞ, S/W, 1..7 DATE:
Head for required position (forwards).
In mode ?:
Head for next switching time.
- [◀] In modes 1..7, DATE, Ⓞ, S/W, 1..7 DATE:
Return to required position (backwards).
In mode ?:
Return to switching time before.
- [A] In mode AUTO:
[B] Press for manual overrided ON or OFF in
[C] relevant channel. Holding down key for
[D] 3 seconds, will switch ON or OFF PERM
override. **Perm** will be displayed.
Programmed function in relevant channel will
be suppressed.
Cancel permanent ON or OFF by holding
down key for a further 3 seconds.

Programming advice

Make inputs step by step. The appropriate position in the display is flashing and can be changed by pressing the key ◆. Head for next position by using key ▶, go backwards by using key ◀.

Installation details

Caution: The installation and assembly of electrical equipment must be carried out only by a skilled person.

Connect to voltage and frequency according to type label only.

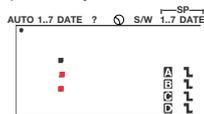
The high density electronic circuit is protected against a wide range of external influences. Incorrect operation may occur if external influences exceed certain limits.

Operating modes

- AUTO** Display of date, day of week, switch status of channel(s)
Manual overriding possible (KEY A, B, C, D)
- 1..7** Input of switching commands according to week day(s) and time (normal programme)
Use arrow keys ◀▶ to alter flashing digit. Use diamond key ◆ to increase value. (Confirming last input by pressing right arrow ▶ will enter into memory)
- DATE** Input permanent ON or OFF, beginning and ending according to date.
Use arrow keys ◀▶ to alter flashing digit. Use diamond key ◆ to increase value. (Confirming last input by pressing right arrow ▶ will enter into memory)
- ?** Displays number of free memory locations
Show switching times for each channel
Alter switching time
Clear single or all switching times
Use arrow keys ▶ forwards or ◀ backwards. Use diamond key ◆ to change (alter) displayed switching time.
Use key CL to cancelling the displayed switching time.
Use key CL twice to cancelling all switching times if displayed number of memory locations available.
- Ⓞ** Input of actual date and actual time
Use arrow keys ◀▶ to alter flashing digit. Use diamond key ◆ to increase value. (Confirming last input by pressing right arrow ▶ will enter into memory)
(Automatic display of day of week)
- S/W** Automatic summer/winter time change over
Use arrow keys ◀▶ to alter flashing digit. Use diamond key ◆ to increase value. (Confirming last input by pressing right arrow ▶ will enter into memory)
- SP 1..7** Special programme(s):
Input of switching commands according to number of special programme, week day(s) and time.
Use arrow keys ◀▶ to alter flashing digit. Use diamond key ◆ to increase value. (Confirming last input by pressing right arrow ▶ will enter into memory)
- SP DATE** Special programme(s):
Programming start and end dates
Use arrow keys ◀▶ to alter flashing digit. Use diamond key ◆ to increase value. (Confirming last input by pressing right arrow ▶ will enter into memory)

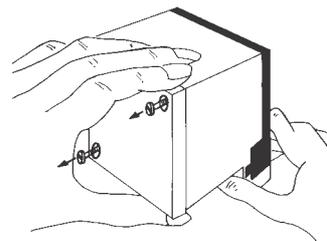
Reset

Pressing sinked key left side of channel A will clear real time and microprocessor. Switching programmes normally will not be affected. (Check by Read-Out; Mode "?")

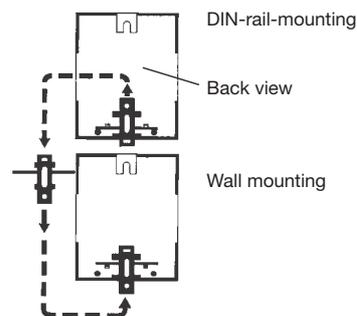


If connected to mains supply display will auto restore after 2 seconds.

Mounting advice SC 74

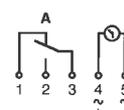


Mounting advice SC 78

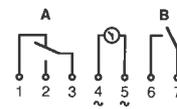


Wiring diagrams SC 74

SC 74.10

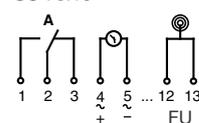


SC 74.20

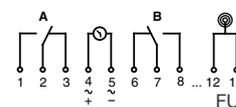


Wiring diagrams SC 78

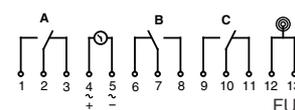
SC 78.10



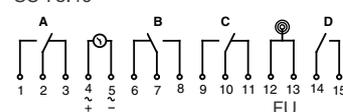
SC 78.20



SC 78.30



SC 78.40



Yearly function

Normal programme

In mode "1..7" program as week (no date function) The weekly programmes will run continuously, week by week, as long as neither special programme nor perm ON or OFF is activated.

Special programme(s)

Special programmes must be programmed in function "SP 1..7" (as per week programme). Special programmes can be selected (START/STOP Times) in "SP Date" function. According to the "SP date" inputs the time switch changes from the normal weekly programme to the required No. of the special programme.

Some rules for the programming of SP-special programmes

- Each special programme can be activated as often as required, but only within the available storage capacity.
- If, by mistake several special programmes are activated within the same dates, only the special programme with the highest priority (between SP1 and SP 15) will be carried out. The other special programmes will be ignored.
- A special programme primarily programmed for several channels can be activated to overwrite one, two, three or four channels. The remaining channel will continue with the normal programme or carry out other activated special programmes.
- When a special programme is activated it will take priority over the normal programme.

Priority in switching

Highest priority	Permanent ON or OFF, (Programming mode "Date") P15 Special programme "SP 1..7"
↑	• and "SP DATE"
↑	•
↑	P01
Lowest priority	Normal programme (Mode 1..7)

Mode S/W summertime changes

Beginning/end of summertime:

Mode 0:

4th Sunday, each March and October

Mode 1:

Current Central European Regulation

last Sunday, each March and October (installed)

Mode 2:

input of individual dates possible

(dates from mode 1 can be over written)

Mode 3:

no summertime change

Mode 4:

Last Sunday, each March and September

Mode 5:

1st Sunday in April, last Sunday in October (USA)

DCF 77 time signal receiver (SC 78 only) Time switch can be connected to a receiver of DCF 77 time signal

- Disconnect time switch from main.
- Connect receiver according to wiring diagram.
- Reconnect time switch to mains.
- Radio symbol flashing in display for approx 3 minutes.
- If symbol continues to flash after 3 minutes there is a fault or the time signal cannot be received.
- With receiver disconnected, no indication of radio symbol.
In both cases the time switch is running quartz-controlled.

DCF 77 is an european generated signal and is not available in the UK.

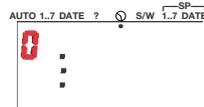
Examples

RED: Flashing symbol in display

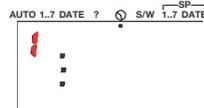
Mode Current date and real time input or change

Example: Date 14.07.1999
Time 14:30
Initial form: Mode AUTO

Press  4x

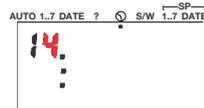


◆ 1x



▶ 1x

◆ 4x



▶ 2x

◆ 6x



▶ 2x

◆ 9x



▶ 1x

◆ 1x



▶ 1x

◆ 4x



▶ 1x

◆ 3x



▶ 2x



Mode 1..7

Programming normal weekly programmes

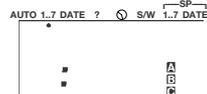
Several possibilities:

1. Single day, one channel
2. Several days, one channel
3. Single day, several channels
4. Several days, several channels

Example: Tuesday (2) and Thursday (4), switching time 19:00 h; Channel A ON, channel B IMPULSE 10 sec.

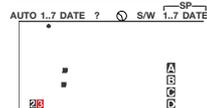
Initial form: Mode AUTO

PRESS  1x



▶ 1x

◆ 1x



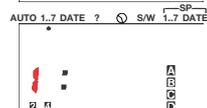
▶ 1x

◆ 1x



▶ 3x

◆ 1x



▶ 1x

◆ 9x



▶ 3x

◆ 1x



▶ 1x

◆ 3x

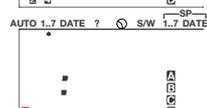


▶ 3x

◆ 1x



▶ 2x



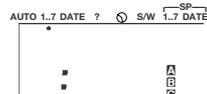
After approx. 3 sec.:

Continue with input of further dates/functions or press key  7x to return to mode AUTO

Example: Wednesday (3); Time 14:00
Channel D OFF

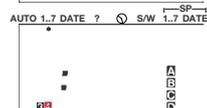
Initial form: Mode AUTO

PRESS  1x



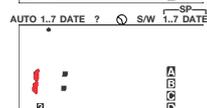
▶ 2x

◆ 1x



▶ 4x

◆ 1x



▶ 1x

◆ 4x



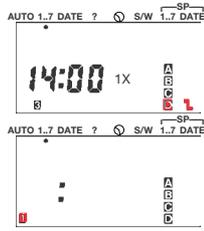
▶ 3x



If 1x (once through) is required (one day of the week only) press key  to confirm 1x.

Input will be cancelled automatically after execution. Example without 1x.

- ▶ 4x
- ◆ 2x



- ▶ 1x

After approx.
3 sec.:

Continue with input of further dates/functions or press key **0** 7x to return to mode AUTO.

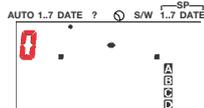
Mode DATE
Holiday programming (Perm ON or OFF by date)

Programming for certain channels (permanently ON/OFF), while others carry out normal or active special programmes.

Example: From 30.07 until 30.08, channel B OFF
As 1x input to be cancelled automatically when carried out

Initial form: Mode AUTO

Press **0** 2x



- ◆ 3x



- ▶ 3x
- ◆ 5x



- ▶ 1x
- ◆ 3x



- ▶ 3x
- ◆ 6x



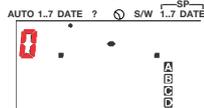
- ▶ 1x
- ◆ 1x



- ▶ 1x
- ◆ 2x



- ▶ 3x



After approx.
3 sec.:

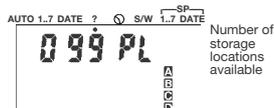
Continue with input of further dates/functions or press key **0** 6x to return to AUTO.

Mode ?
Display or alter switching times

Example: Alter Tuesday and Thursday 19:00;
Channel A ON; Channel B IMPULSE into:
Wednesday and Thursday 19:30;
Channel A ON; Channel B ON

Initial form: Mode AUTO

Press **0** 3x



- ▶ 1x
- ◆ 1x



- ▶ 1x
- ◆ 1x



- ◆ 1x



- ▶ 6x
- ◆ 3x



- ▶ 3x
- ◆ 2x



- ▶ 7x



- 0** 5x



Mode ?
Cancel function

Example: Cancel DATE 30.07. until 30.08.
Channel B OFF

Initial form: Mode AUTO

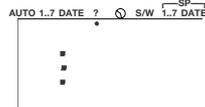
Press **0** 3x



- ▶ 3x



- CL 1x



After approx.
3 sec.



- ▶ 1x



- 0** 5x



If key CL is pressed twice while storage locations available are displayed, all inputs are cancelled. (Total clearing).

Mode SP 1..7
Programming special programme

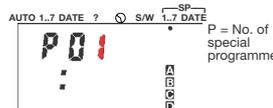
Same programming as for normal week programme possible:

1. Single day, one channel
2. Several days, one channel
3. Single day, several channels
4. Several days, several channels

Example: Special programme No. 02
Monday (1) until Friday (5)
switching time 12:00 h
channels A and C ON

Initial form: Mode AUTO

Press **0** 6x



- ◆ 1x



- ▶ 1x
- ◆ 5x



- ▶ 2x
- ◆ 1x



- ▶ 1x
- ◆ 2x



- ▶ 3x
- ◆ 1x



- ▶ 2x
- ◆ 1x



- ▶ 2x



After approx.
3 sec.:

Continue with input of further dates/functions or press **0** 2x to return to AUTO.

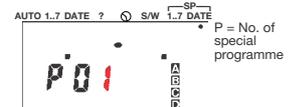
Mode SP Date
Activating a special programme, date for beginning and ending

Activating for certain channels possible, while others carry out normal or other activated special programmes.

Example: From 24.12. until 01.01.
special programme 02 active for channel C

Initial form: Mode AUTO

Press **0** 7x



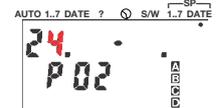
- ◆ 1x



- ▶ 1x
- ◆ 2x



- ▶ 1x
- ◆ 4x



- ▶ 1x
- ◆ 1x



- ▶ 1x
- ◆ 2x



- ▶ 4x



- ▶ 4x
- ◆ 1x



- ▶ 2x



After approx.
3 sec.:

Continue with input of further dates or press key **0** 1x to return to mode AUTO.

