Programming manual SC 24

In mode AUTO manual switching possible by pressing relevant key

1 ⇒ Monday
2 ⇒ Tuesday
3 ⇒ Wednesday
4 ⇒ Thursday
5 ⇒ Friday
6 ⇒ Saturday
7 ⇒ Sunday
⇒ Channel ON
⇒ Channel OFF
⇒ IMPULSE 01 - 59 sec.

Programming

Key functions

[Menu] Selection of programming modes
AUTO → PR → ? → ⊘ → S/W → AUTO ...

[CL] Cancelling of inputs in modes PR; ? and ⊘.

[◆] In PR; ?; ⊘ and S/W modes:
Change flashing digit resp. position.
In Mode ?:
Change selected inputs.

[O.K.] Confirm the selected mode.
In PR and ⊘ modes:
Head for required position. (forwards)
In? mode:
Head for next switching time.
In S/W mode:
Enter into memory.

[◀] In PR and ⊘ modes:
Return to required position. (backwards)
In PR mode:
Head for holiday programme when 1 (Monday) is flashing.
In ? mode:
Return to switching time before.

[A] In AUTO mode:
Press for manual override ON or OFF.
Holding down key for 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, perm will disappear.

Programming advice

The default setting on delivery is programmed real time and date, the summertime change is activated.

Programming possible also with time switch disconnected: Press O.K., display appears, start programming.

Make inputs step by step. The appropriate position in the display is flashing and can be changed by pressing ◆ key. Head for next position by using O.K. key, go backwards by using ◀ key. Inputs are terminated when flashing finishes.

Installation details

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

Connect to voltage and frequency according to type label only.

Warranty void if housing opened by unauthorised person.

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

Operating modes

AUTO Display of time, day of week, switch status of channel(s). Also indication of actual day's programme in full hours.
2 – channel – version: Change of the indication channel A/channel B every 10 seconds.
Manual overriding possible (KEY A, B)

PR Input of switching commands according to week day(s) and time, also the holiday programme
Use arrow ◀ and O.K. keys to alter flashing digit.
Use diamond ◆ key to increase value.
(Confirm last input with O.K. key, will enter into memory)
If Monday 1 is flashing, use the ◀ key to select the holiday programming.

? Displays number of free memory locations
Show switching times
Alter switching time
Clear single or all switching times
Use O.K. key forwards or ◀ key backwards to display switching times.
Use diamond ◆ key to change (alter) displayed switching time.
Use CL key to cancelling the displayed switching time.
Use CL key twice to cancel all switching times if number of free memory locations available displayed only.

⊘ Input of actual date and time
Use arrow ◀ and O.K. keys to alter flashing digit.
Use diamond ◆ key to increase value.
(Confirm last input with O.K. key, will enter into memory and change into AUTO mode)

S/W To activate / deactivate the summer/winter time change over.
Use diamond ◆ key to select automatic S/W – time change ON or OFF.
(Confirm last input with O.K. key, will enter into memory and change into AUTO mode)

Reset

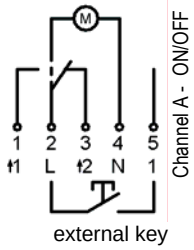
Press and hold down all three keys ◀; O.K. and CL , will clear date, real time and microprocessor Switching programmes normally will not be affected.

(Check by Read – Out; "?" mode)

The ⊘ mode is selected because date and real time must be programme new.

Wiring diagrams SC 24

SC 24.10



The external [ON/OFF] override has the same function as the channel A button on the front

⚠ Use same phase for external [ON/OFF], terminal No. 5 and terminal No. 2 only

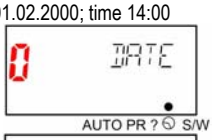
BA SC24 M; GB - 22520 - 2008.08-01

Examples

Red: Flashing symbol in display

⊘ mode
Current date and real time input or change

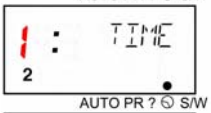
Example: Date 01.02.2000; time 14:00
after Reset



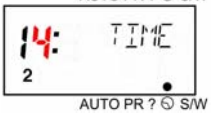
O.K. 3x
◆ 1x

O.K. 2x

O.K. 1x
◆ 1x



O.K. 1x
◆ 4x



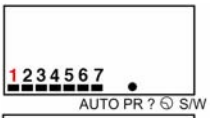
O.K. 3x

Mode PR
Programming day or week programme

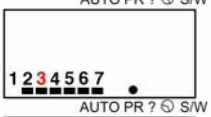
Several possibilities:
1. Single day, one channel
2. Several days, one channel.

Example: Tuesday (2) and Thursday (4) to Sunday (7);
Switching time 19:00; Channel A ON;
Start from: AUTO mode

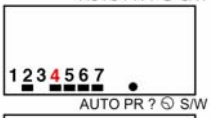
Menu 1x
O.K. 1x



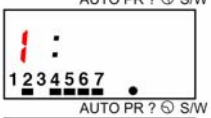
◆ 1x
O.K. 2x



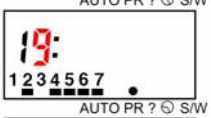
◆ 1x
O.K. 1x



O.K. 4x
◆ 1x

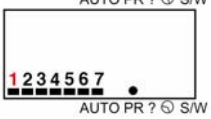


O.K. 1x
◆ 9x



O.K. 3x
◆ 1x

O.K. 1x



Continue with input of further dates / functions or press key Menu 1x to return to mode AUTO.

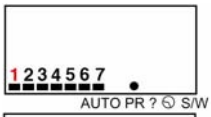
PR mode
Holiday programming
Start and End programming by date

Programming for certain channels (permanently ON / OFF), while others carry out the week programme.

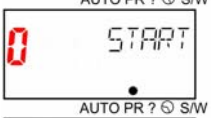
Example: Start 20.04; End 24.04
Channel A OFF (permanent)

Start from: AUTO mode

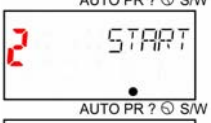
Menu 1x
O.K. 1x



◀ 1x

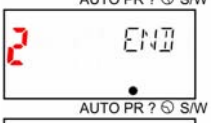


◆ 2x

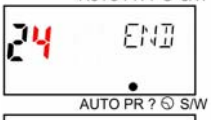


O.K. 3x
◆ 4x

O.K. 1x
◆ 2x



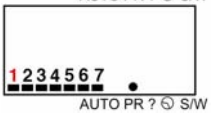
O.K. 1x
◆ 4x



O.K. 2x
◆ 4x

O.K. 2x
◆ 2x

O.K. 1x



Continue with input of further dates / functions or press Menu key 1x to return to AUTO mode.

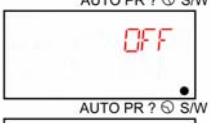
The holiday programme does not occupy a storage location.
By input a new holiday programme the old holiday programme is overwrite.
The hoilday programme is clear at the end of the holiday programme and the outputrelais goes into the state of the switching programme. (Prgramme review)

S/W mode
Deactivate automatic summertime changes (daylight saving)

The default setting on delivery, S/W time change is activated. Initial form: AUTO mode

Menu 4x
O.K. 1x

◆ 1x



O.K. 1x

The S/W – time change is deactivated

The time changeover is executed automatically according to the „European Regulation".

Start: Last Sunday in March
End: Last Sunday in October

? mode
Display or alter switching times

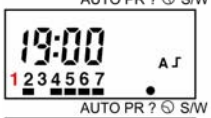
Example: Alter Tuesday and Thursday to Sunday 19:00;
Channel A ON; Channel B IMPULSE
into : Wednesday to Sunday 19:30;
Channel A ON; Channel B ON

Start from: AUTO mode

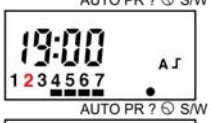
Menu 2x
O.K. 1x

Number of free storage locations available

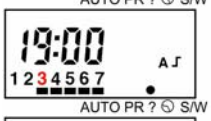
O.K. 1x
◆ 1x



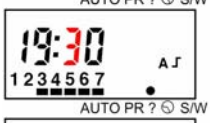
O.K. 1x
◆ 1x



O.K. 1x
◆ 1x



O.K. 7x
◆ 3x



O.K. 2x

◆ 1x

O.K. 1x

Number of free storage locations available

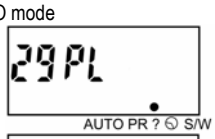
Menu 1x

? mode
Cancel function

Example: Cancelling holiday programme
Start: 20.04 End: 24.04

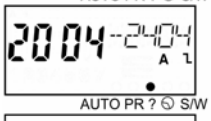
Sart from: AUTO mode

Menu 2x
O.K. 1x

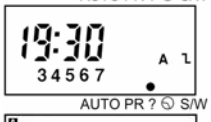


Number of storage locations available

O.K. 1x



CL 1x



Menu 1x

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