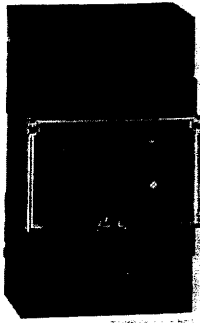


Programming manual

176... 4w13  
175... NELI



Picture: DIN-rail mounting and wall mounting

- 1 ⇒ Monday
  - 2 ⇒ Tuesday
  - 3 ⇒ Wednesday
  - 4 ⇒ Thursday
  - 5 ⇒ Friday
  - 6 ⇒ Saturday
  - 7 ⇒ Sunday
  - ⌋ ⇒ Channel ON
  - ⌋ ⇒ Channel OFF
  - ⌋ ⇒ IMPULSE 01 - 59 sec.
- In mode AUTO manual switching possible by pressing relevant keys

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:
- [B] Press for manual override ON or OFF in relevant channel. 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

**Caution:** 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**

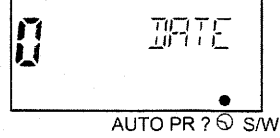
**Alter switching time**  
**Clear single or all switching times**  
Use O.K. key forwards or ▶ key backwards to display switching times.  
Use diamond ♦ key to change (alter) displayed switching time.  
Use CL key to cancelling the displayed switching time.  
Use CL key twice to cancel all switching 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)

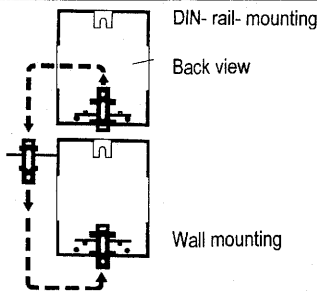
Reset

Pressing recessed key in the middle of ▶ key and CL key, will clear date, real time and microprocessor  
Switching programmes normally will not be affected. (Check by Read - Out; "?" mode)

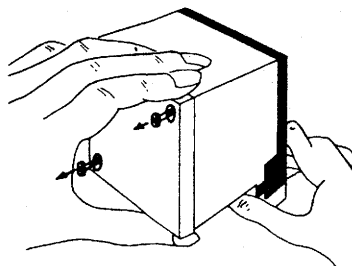


The ⌚ mode is selected because date and real time must be programme new.

Mounting advice



Mounting advice

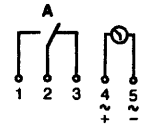


switchboard panel und wall mounting

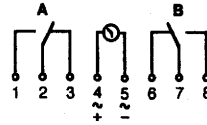
Wiring diagrams

DIN-rail-mounting and wall mounting

1 channel



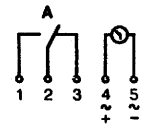
2 channel



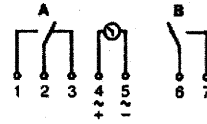
Wiring diagrams

Switchboard panel und wall mounting

1 channel



2 channel



Switching programme

Programming day or week programme

								⌋ ⇒ channel ON	⌋ ⇒ channel OFF	⌋ ⇒ IMPULSE
TIME	Mo	Tu	We	Th	Fr	Sa	Su	A	B	REMARK

Holiday programme (Permanently ON / OFF)

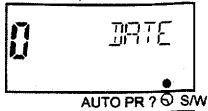
			⌋ ⇒ channel ON	⌋ ⇒ channel OFF
START	END	A	B	REMARK

**Examples**

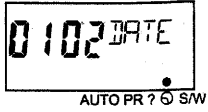
**mode**

Current date and real time input or change

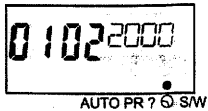
Example: Date 01.02.2000; time 14:00 after Reset



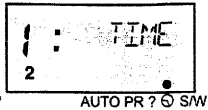
O.K. 3x  
◆ 1x



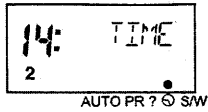
O.K. 2x



O.K. 1x  
◆ 1x



O.K. 1x  
◆ 4x



O.K. 3x

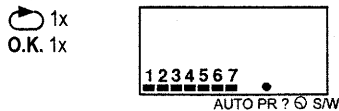
**Mode PR**

Programming day or week programme

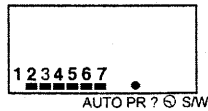
Several possibilities:

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

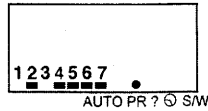
Example: Tuesday (2) and Thursday (4) to Sunday (7);  
Switching time 19:00;  
Channel A ON; Channel B IMPULSE 05 sec.  
Start from: AUTO mode



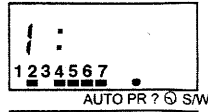
◆ 1x  
O.K. 2x



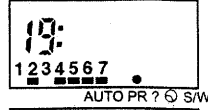
◆ 1x  
O.K. 1x



O.K. 4x  
◆ 1x



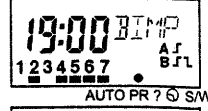
O.K. 1x  
◆ 9x



O.K. 3x  
◆ 1x



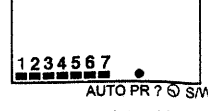
O.K. 1x  
◆ 3x



O.K. 2x  
◆ 5x



O.K. 1x



Example  
2 channel  
clock

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

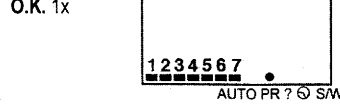
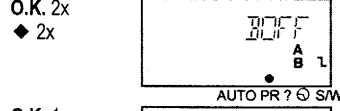
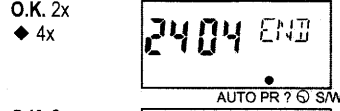
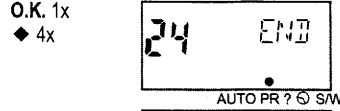
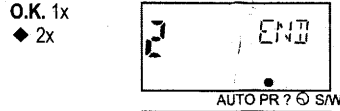
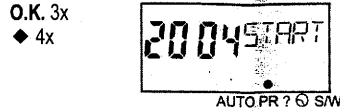
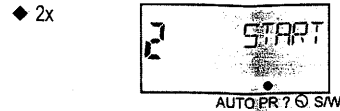
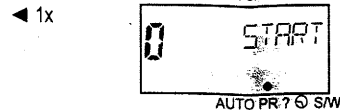
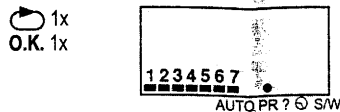
Red: Flashing symbol in display

**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 B OFF (permanent)  
Start from: AUTO mode



Example  
2 channel  
clock

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

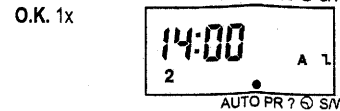
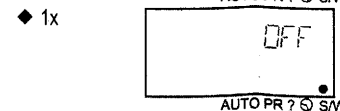
**The holiday programme does not occupy a storage location.**

By input a new holiday programme the old holiday programme is overwrite.  
The holiday programme is clear at the end of the holiday programme and the outputrelais goes into the state of the switching programme. (Programme 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



The S/W -  
time  
change is  
deactivated

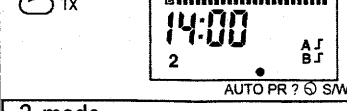
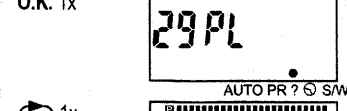
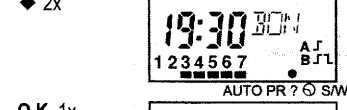
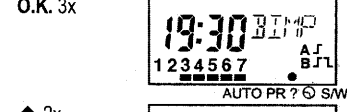
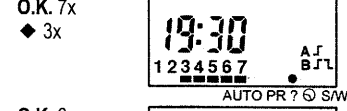
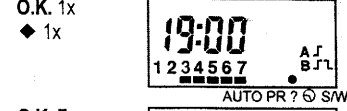
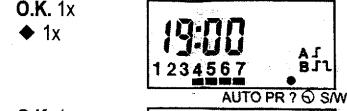
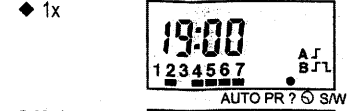
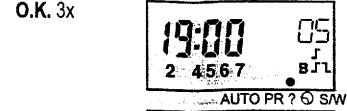
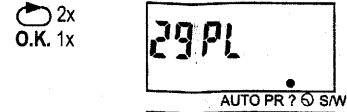
The time changeover is executed automatically according to the „European Regulation“.  
Start: Last Sunday in March  
End: Last Sunday in October

**? 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



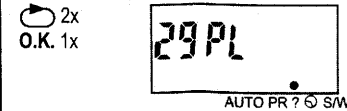
Number of free  
storage  
locations  
available

Number of  
storage  
locations  
available

**? mode**

Cancel function

Example: Cancelling holiday programme  
Start: 20.04 End: 24.04  
Start from: AUTO mode



Number of  
storage  
locations  
available

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