

Programming manual 175 4X2 and 176 4X2



Picture: 176 422

- 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

⚠ 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)

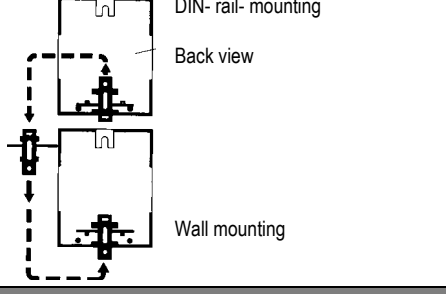
Reset

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)

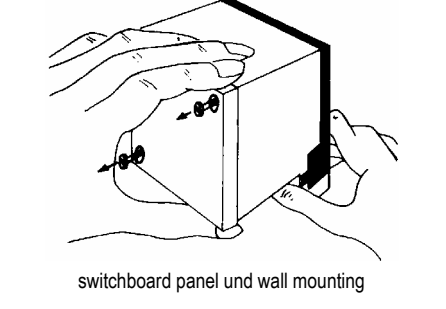


The mode is selected because date and real time must be programme new.

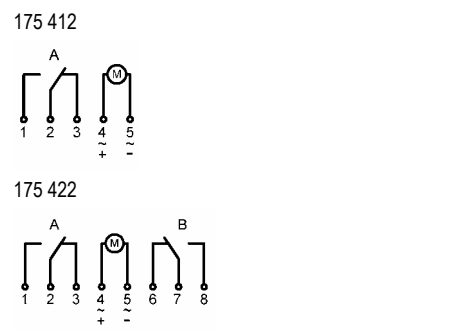
Mounting advice 175 4X2



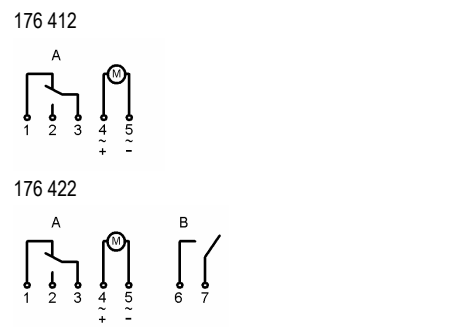
Mounting advice 176 4X2



Wiring diagrams 175 4X2



Wiring diagrams 176 4X2



Switching programme

Programming day or week programme

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

Holiday programme (Permanently ON / OFF)

START	END	⇒ channel ON ⇒ channel OFF			REMARK
		A	B		

Examples

mode

Current date and real time input or change

Example: Date 01.02.2000; time 14:00 after Reset



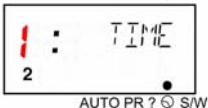
O.K. 3x
◆ 1x



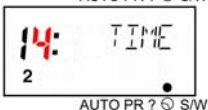
O.K. 2x



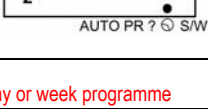
O.K. 1x
◆ 1x



O.K. 1x
◆ 4x



O.K. 3x



PR mode

Programming day or week programme

Several possibilities:

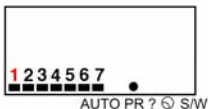
1. Single day, one channel
2. Several days, one channel.
3. Single day, several channels
4. Several days, several channels.

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

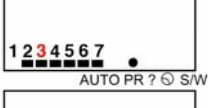
○ 1x

O.K. 1x



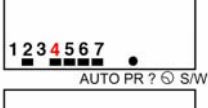
◆ 1x

O.K. 2x



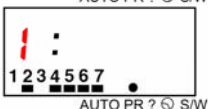
◆ 1x

O.K. 1x



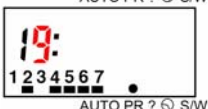
O.K. 4x

◆ 1x



O.K. 1x

◆ 9x



O.K. 3x

◆ 1x



O.K. 1x

◆ 3x



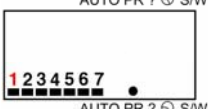
Example
2 channel
clock

O.K. 2x

◆ 5x



O.K. 1x



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

Red: Flashing symbol in display

PR mode

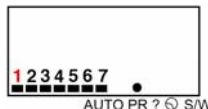
Holiday programming
Start and End programming by date

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

○ 1x

O.K. 1x



◀ 1x



◆ 2x



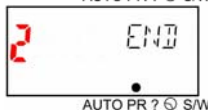
O.K. 3x

◆ 4x



O.K. 1x

◆ 2x



O.K. 1x

◆ 4x



O.K. 2x

◆ 4x



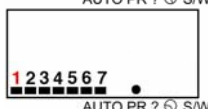
O.K. 2x

◆ 2x



Example
2 channel
clock

O.K. 1x



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 output relays goes into the state of the switching programme. (Programme review)

SW mode

Deactivate automatic summertime changes (daylight saving)

The default setting on delivery, SW time change is activated.

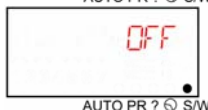
Initial form: AUTO mode

○ 4x

O.K. 1x



◆ 1x



O.K. 1x



The SW -
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

○ 2x

O.K. 1x



Number of
free storage
locations
available

O.K. 3x



◆ 1x



O.K. 1x

◆ 1x



O.K. 1x

◆ 1x



O.K. 7x

◆ 3x



O.K. 3x



◆ 2x



O.K. 1x



Number of
storage
locations
available

○ 1x



? mode

Cancel function

Example: Cancelling holiday programme
Start: 20.04 End: 24.04

Start from: AUTO mode

○ 2x

O.K. 1x

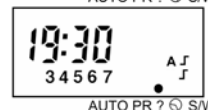


Number of
storage
locations
available

O.K. 1x



CL 1x



○ 1x



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