PCZ-521.2
PROGRAMMABLE CONTROL TIMER
one-way type

CE

5 908312 593249

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F&F products are covered by an 24 months warranty from date of purchase

PURPOSE

Programmable control timers are used to control the work time of devices included into industrial or household automatic systems in compliance with individual time schedule planned by the user.

FUNCTIONING

The timer activates and deactivates a given device at preset hours in the following cycles: 24-hour, weekly, working day (Mon-Fri) or weekend (Sat, Sun).

+:
- change setting position by +1 in choosen programable position (preesing a button make intennsive changes in settings by +1 in loop)
- in **HANDIWORK** mode:permanent enclosure **ON** and exclusion **OFF** a joint

−:- change setting position by -1 in choosen programable position (preesing a button make intennsive changes in settings by -1 in loop)
- in **HANDIWORK** mode:permanent enclosure **ON** and exclusion **OFF** a joint

RESET:
- to reset a processor - in case of hook-up of function of work indispensable of timer. It does not erase setups of DATES and TIME and ORDERS SWITCH ON - SWITCH OFF.

−+ MENU ("hard" reset):
- delete of all settings of DATE and TIME and ORDERS SWITCH ON - SWITCH OFF from memory   (preesing >3sec two buttons simultaneously).

PROGRAMMING

1. START
1.1 Take ON the POWER
1.2 Timer make a test of display (enclose all section)

1.3 Timer sterted count time from hour. 00:00
ATTENTION! If after took the power timer show another time and date then it means, in memory timmerare are earlier setting.
 If timer have got in memories earlier settings, they could be deleted by "hard" reset (see p. 8).
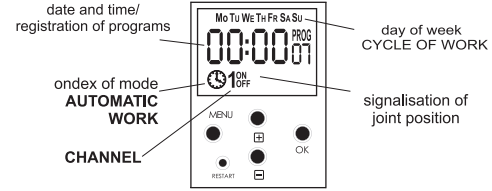
DESCRIPTION OF WORK AND FUNCTIONS

AUTOMATIC WORK - according to program points of enclosures and switching off joint [sign ⏱ on the left of display]
HANDIWORK- [ON] - enduring connection of joint (position1-5) or **[OFF]**- enduring switch off   joint (position 1-6) by activated AUTOMATIC WORK [lack of sign ⏱ on the left of display]
ORDER SWITCH ON - SWITCH OFF- registry of program by whom make switch ON or OFF a receiver.
CYCLE OF WORK - setting by user, weekly (7 days fron monday to sunday). In this time a reciver is enclose with programmabled ORDERS SWITCH ON- SWITCH OFF

DESCRIPION OF DISPLAY AND PANEL STEERING

date and time/
registration of programs

day of week
CYCLE OF WORK

ondex of mode
**AUTOMATIC
WORK**

signalisation of
joint position

CHANNEL

Mo-monday;Tu-tuesday; We-wednesday;Th-thursday;Fr-friday; Sa-saturday; Su-sunday

DESCRIPTION OFF BUTTONS FUNCTION

MENU:
- pass to programmable menu (preeser >3sec)
- acceptance of settings **DATE, TIME AND ORDERS SWITCH ON- SWITCH OFF**
- pass to upper level
OK.:
- enter settings and pass to next settings
- peep a date

2. DATE

2.1 Prees a button MENU >3sec. Timer pass to setting mode of programming (date - hour - prog - edit - del - mode-dst).
2.2 By buttons **+/−**   select mode date "**DATE**".

dATE PROG

Enter by OK.
2.3 Timer pass to setting year mode.

PROG
07

By buttons **+/−** set year , enter OK.
2.4 Timer pass to setting month mode.

01 PROG
07

By buttons **+/−** set a month, enter OK.
2.5 Timer pass to setting day of month mode.

01 03 PROG
01

By buttons +/– set to actual day of month
*by button OK pass to setting year mode (see p2.3)
* by button MENU accept to registry and out of programming mode.
By button MENU enter registry of date. Timer automaticly out from programmable DATE function and pass to programming mode. Again prees a button MENU cause pass to main menu.

3. TIME

3.1 Button MENU prees >3sec. Timer pass to programming menu (date - hour - prog - edit - del - mode-dst).
3.2 By buttons +/– select mode of set hour **"HOUR"**

Enter OK..
3.3. Timer pass to setting minutes mode.

By buttons +/– set minutes, enter OK..
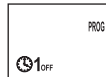3.4 Timer pass to setting hour mode.

By buttons +/– set hour.

By buttons +/– set hour. Enter OK..

4.5 Timer pass to setting CYCLE WORK mode. By buttons +/– set CYCLE of WORK:
- one day of week: Mo; Tu; We; Th; Fr; Sa lub Su.
- work days: Mo Tu We Th Fr (from monday to friday).
- weekand: Sa Su (saturday and sunday)
- everyday: Mo Tu We Th Fr Sa Su (from monday to sunday)

Enter OK.
4.6 Timer pass to setting option SWITCH ON [ON]or SWITCH OFF [OFF] mode.

- By button +/– set option ON or OFF, enter OK.
- Timer automaticly pass to input a next parameter of ORDER ENCLOSE-EXCLUSION mode (see 4.3.)
- By button MENU enter registry of time. Timer automaticly pass to menu. Again prees a button MENU cause pass to main menu.
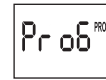
ATTENTION!
- Registried orders ENCLOSE-EXLUSION didn't make up permanent function which realise ENCLOSING or EXLUSIONING of joint. They are threat as once orders and realise with input chronolgy. Example of set to interplay times of ENCLOSE oders ENCLOSE-EXCLUSION present below digrams:

- By button OK return to setting minutes mode (see p.3.3.)
- By button MENU enter registry of time. Timer automaticly out from programmable DATE function and pass to programming mode. Again prees a button MENU cause pass to main menu.

4. ORDER ENCLOSE- EXCLUSION- setting parameters

4.1 Prees button MENU >3sec. Timer pass to programing mode (date - hour - prog - edit - del - mode-dst).
4.2 By buttons +/– select input parameters mode of "ORDER ENCLOSE-EXCLUSION" "**PROG**".

Enter OK.
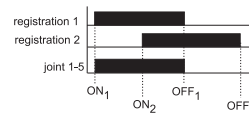4.3 Timer displaied (1sec) next number of ORDER ENCLOSE-EXCLUSION.

Timer automaticly pass to setting minutes mode.

By buttons +/– set minutes, enter OK.
4.4 Timer pass to setting hour mode.

- Time of enclose joint which is established by pair of orders ENCLOSE-EXLUSION could be longer than 24 hours. It means order ON could be set for any hour and day of week (e.g. Thuesday 13:45) but order OFF for any different date (Thursday 17:05).
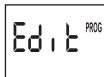- for every order could be establised different CYCLE of WORK. Orders with different CYCLES of WORK are realise with sequence:
- one day of week: Mo; Tu; We; Th; Fr; Sa lub Su.
- work days: Mo Tu We Th Fr (from monday to friday).
- weekand: Sa Su (saturday and sunday)

5. EDITION - change of parameter

5.1 Prees button MENU >3sec. Timer pass to programming mode (date - hour - prog - edit - del - mode-dst).
5.2 By buttons +/– select change parameter mode ORDER ENCLOSE-EXCLUSION "edit".

```
Edit  PROG
```

Enter OK.
5.3 Timer displaied first ORDER ENCLOSE-EXCLUSION.
By buttons +/– set number of ORDER ENCLOSE-EXCLUSION to changes of parameter, enter OK.
5.4 Conduct as by set parameters of ORDER ENCLOSE-EXCLUSION (see p 4.3 ÷ 4.5)
By button MENU enter registry. Timer automaticly pass to programming mode. Again prees a button MENU cause pass to main menu.

6. CANCEL- delete registry

6.1 Prees button MENU >3sec. Timer pass to programming mode (date - hour - prog - edit - del - mode-dst).
6.2 By buttons +/– select delete mode ORDER ENCLOSE-EXCLUSION " del".

```
dEL   PROG
```

Enter OK.
6.3 Timer displaied first ORDER ENCLOSE-EXCLUSION.
By buttons +/– set number of ORDER ENCLOSE-EXCLUSION to changes of parameter, enter OK.

Enter OK .Timer automaticly pass to programming mode. Again prees a button MENU cause pass to main menu.

ATTENTION!
Changes of joint position in HAND WORK mode make by buttons +/– in main menu of this menu.

8. MEMORY RESET - "hard" reset

If you wont delete all earlier settings of DATE, TIME and ORDERS ENCLOSE-EXCLUSION , prees simultaneously a buttons + i – >3sec.

9. Exclusion of AUTOMATIC TIME CHANGE

9.1 Prees button MENU >3sec. Timer pass to programming mode (date - hour - prog - edit - del - mode-dst).
9.2 By buttons +/– select exclusion of AUTOMATIC TIME CHANGE mode "dst".
DST - Daylight Saving Time - global name for summer time (free transtation: time of win a sun ight).

```
bSt   PROG
```

Enter OK.
9.3 Timer pass to exclusion of AUTOMATIC TIME CHANGE mode (auto -OFF) .

9.4 By buttons +/– select mode:
- with AUTOMATIC TIME CHANGE - "auto"

By button MENU enter registry. Timer automaticly pass to programming mode. Again prees a button MENU cause pass to main menu.
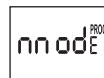
ATTENTION!
If you want delete all earlier settings od DATE, TIME, ORDERS ENCLOSE-EXCLUSION ("hard" reset see p. 8.)

7. WORK MODE- choose

7.1 Prees button MENU >3sec. Timer pass to programming mode (date - hour - prog - edit - del - mode-dst).
6.2 By buttons +/– select work selecting mode " mode".

```
nn odE  PROG
```

Enter OK.
7.3 Timer pass to menu WORK MODE (auto-hand).
7.4 By buttons +/– select work mode.
AUTOMATIC WORK - "auto"

```
Auto  PROG
```

or
- HAND WORK - "hand"

```
hAnd  PROG
```

```
Auto  PROG
```

or
-without AUTOMATIC TIME CHANGE - "off"

```
OFF   PROG
```

Enter OK.
Timer automaticly pass to programming mode. Again prees a button MENU cause pass to main menu.

AUTOMATIC TIME CHANGE!

Changes time from winter time to summer time is automaticly make at the last sunday of march at 2 a.m. (add 1 hour to actual time) .
Changes time from summer time to winter time is automaticly make at the last sunday of october at 3 a.m. (subtract 1 hour from actual time) .

ATTENTION!
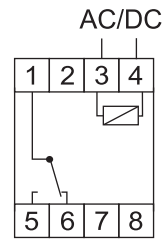*Possible is take OFF automatic function of time change (see p.9).*

ASSEMBLY

1. Take OFF the power.
2. Timer put on the rail in the switchgearbox
3. Cable of supply connect with digram.
4. A receiver connect with diagram.
5. Set a correct date (see p2) and time (see p3).
6. Set time of enclose a receiver (see p4).

TECHNICAL DATA

supply	24÷264V AC/DC
current load	<16A
contacts	1P
display maintenance time	non
timer maintenance time	6 years
indication accuracy item	1sec
time deviation	±1s/24h
schedule time accurancy item	1min
no. of program memory sectors	250
	(125 entry pairs: ON/OFF)
power consumption	1,5W
working temperature	-20÷50°C
connection	screw terminals 2,5mm²
dimensions	2 modules (35mm)
fixing	on the rail TH-35

WIRING DIAGRAM

joint 1-5 "ACTIVATE" [ON]
joint 1-6 "DEACTIVATE" [OFF]

B110701

Programming diagram

In HAND WORK mode connection of joint is make in main menu of this menu.