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PCZ-523.2

PROGRAMMABLE CONTROL TIMER pulse type







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).

DESCRIPTION OF WORK AND FUNCTIONS

AUTOMATIC WORK - according to program points of enclosures

ANDIWARK - according to program points of enclosures and switching off joint [sign © on the left of display]

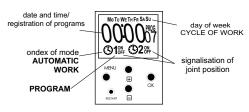
HANDIWORK- [ON] - enduring connection of joint (position 1-5) or [OFF]- enduring switch off joint (position 1-6) by activated AUTOMATIC WORK [lack of sign © on the left of display]

AUTOMATIC WORK [lack of sign ⑤ on the left of display]
ORDER SWITCH ON - HOLD ON- 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.

PROGRAM - one of two programming line, with user settings for
ORDERS ENCLOSE-EXCLUSION, contoll with own enclosing
joint a receiver (connection between programs and button OK.. in
main menu AUTOMATIC WORK mode. main menu AÙTOMATIC WORK mode.

DESCRIPION OF DISPLAY AND PANEL STEERING



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

DESCRIPTION OFF BUTTONS FUNCTION

MENU:

- pass to programmable menu (preeser > 3sec) acceptance of settings **DATE, TIME AND ORDERS SWITCH** ON-HOLD ON
- pass to upper level

- enter settings and pass to next settings select program: PROGRAM 1 or PROGRAM 2 in AUTOMATIC WORK mode.
- 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 for CHANNEL 1
- -:- change settings 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 for CHANNEL 2

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 HOLD ON.
- + and ("hard" reset):
- delete of all settings of DATE and TIME and ORDERS SWITCH ON - HOLD ON 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

2. DATE

2.1 Prees a button MENU >3sec. Timer pass to setting mode of

programming (date - hour - prog1 - prog2 - mode). 2.2 By buttons +/— select mode date "**DATE**"



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



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



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



- 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 programing menu (date-hour -prog -edit-del-mode-dst).
 3.2 By buttons +/- select mode of set hour "HOUR"



Fnter OK

4.1.3 Timer pass to menu of programming line (set - edit - del)

4.2 ORDER ENCLOSE- HOLD ON- setting parameters

4.2.1 By buttons +/- select settings parameter mode "set"



4.2.2. Timer displied next number of ORDER ENCLOSE-HOLD ON



Timer automalicly pass to setting minutes mode



By buttons +/- set minutes, enter OK. 4.2.3 Timer pass to setting hour mode.



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 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- HOLD ON

4.1.1 Prees button MENU >3sec. Timer pass to programing mode (date-hour - prog1 - prog2 - mode). 4.1.2 By buttons +/- select PROGRAM:

PROGRAM 1 - "PROG1". or PROGRAM 2 - "PROG2".



By buttons +/- set hour. Enter OK...

- 4.2.4 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.

4.2.5 Timer pass to setting lenght of sec. of activation time mode.



- -By button +/- set sec, enter OK.
- 4.2.6 Timer pass to setting lenght of minute of activation time mode.

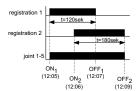


- Bv button +/- set minutes, enter OK.
- Timer automaticly pass to input a next parameter of ORDER ENCLOSE-EXCLUSION mode (see p..4.2.2.)
 By button MENU enter registry of time. Timer automaticly pass
- to menu. Again prees a button MENU cause pass to main menu.

ATTENTION!

ATTENTION:

- Registried orders ENCLOSE-HOLD ON didn't make up permament 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-HOLD ON present below digrams:



5. EDITION - change of parameter

5.1 By buttons +/- select change parameter mode "edit".



5.2 Timer displaied first OixLL R
By buttons +/- set number

LOSE-HOLD ON. R ENCLOSE-HOLD ON to

changes of parameter, enter OK.

5.3 Conduct as by set parameters of ORDER ENCLOSE-HOLD ON (see p. 4.2.1 + 4.2.6)

By button MENU enter registry. Timer automaticly pass to programming mode of choosen channel. Again prees a button MENU cause pass to main menu.

6. CANCEL- delete registry

6.1 By buttons +/- select delete mode "del".



-HAND WORK-"hand"



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

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

8. SELECT PROGRAM

Connection by PROGRAM1 and PROGRAM 2 (and return) possible is by button OK in main menu in AUTOMATIC WORK

9. MEMORY RESET - "hard" reset

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

10. Exclusion of AUTOMATIC TIME CHANGE

10.1 Prees button MENU >3sec. Timer pass to programming mode (date -hour -prog1-prog2-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 light).

Enter OK.

6.2 Timer displaied first ORDER ENCLOSE-HOLD ON. By buttons +/- set number of ORDER ENCLOSE-HOLD ON todelete of parameter, enter OK....

By button MENU enter registry. Timer automaticly pass to programming mode. Again prees a button MENU cause pass to

ATTENTION!

If you want delete all earlier settings od DATE, TIME, ORDERS ENCLOSE-EXCLUSION ("hard" reset see p. 9.)

7. WORK MODE- choose

7.1 Prees button MENU >3sec. Timer pass to programming mode (date-hour -prog1-prog2-mode).
7.2 By buttons +/- select work selecting mode "mode".



Enter OK.

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





Enter OK.

10.3 Timer pass to exclusion of AUTOMATIC TIME CHANGE mode (auto -OFF).

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



-without AUTOMATIC TIME CHANGE - "off"



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..10).

ASSEMBLY

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

TECHNICAL DATA

supply	24÷264VAC/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
schedule time hold on item	1sec
range of hold on time	1sec÷99min59sec
no. of program memory sector	
2×(60 d	rders: ON/OFF /program)
power consumption	1,5W
working temperature	-20÷50°C
connection	screw terminals 2,5mm ²
dimensions	2 modules (35mm)
fixing	on the rail TH-35

WIRING DIAGRAM AC/DC 3 4

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

6

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Programming diagram

⊕⊞/□

Ø-√ OK

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