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PCZ-523.2

PROGRAMMABLE CONTROL TIMER
pulse type

www.fif.com.pl

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.

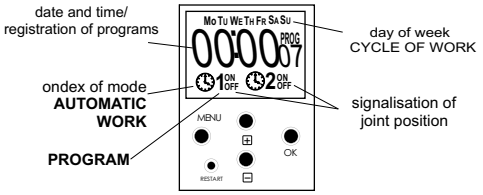
FUNCTIONING

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 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]*
***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.*

DESCRIPION OF DISPLAY AND PANEL STEERING



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

DESCRIPTION OFF BUTTONS FUNCTION

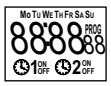
MENU:
- pass to programmable menu (preeser >3sec)
*- acceptance of settings **DATE, TIME AND ORDERS SWITCH ON- HOLD ON***
- pass to upper level
OK:
- enter settings and pass to next settings
- select program: PROGRAM 1 or PROGRAM 2 in AUTOMATIC WORK mode.
+:
- change setting position by +1 in choosen 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 "hard" reset (see p. 8).

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"***

Enter 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"***

Enter OK.
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..*

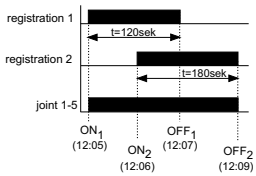
*4.2.4 Timer pass to setting CYCLE WORK mode. By buttons **+/–** set CYCLE of WORK:*
- one day of week: Mo; Tu; We; Th; Fr; Sa lub Su.
- work days: Mo Tu We Th Fr (from monday to friday).
- weekand: Sa Su (saturday and sunday)
- everyday: Mo Tu We Th Fr Sa Su (from monday to sunday)

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.

*- By 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!
- 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"**.*

Enter OK.
5.2 Timer displaied first ORDER ENCLOSE-HOLD ON.
*By buttons **+/–** set number of ORDER 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**".*

or
*- HAND WORK - **"hand"***

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. SELECT PROGRAM

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

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 main menu.

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

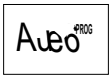
7. WORK MODE- choose

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**"*



or
*- 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).

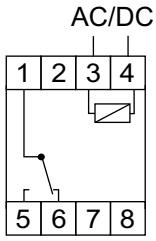
ASSEMBLY

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 p2) and time (see p3).
6. Set time of enclose a receiver (see p4).

TECHNICAL DATA

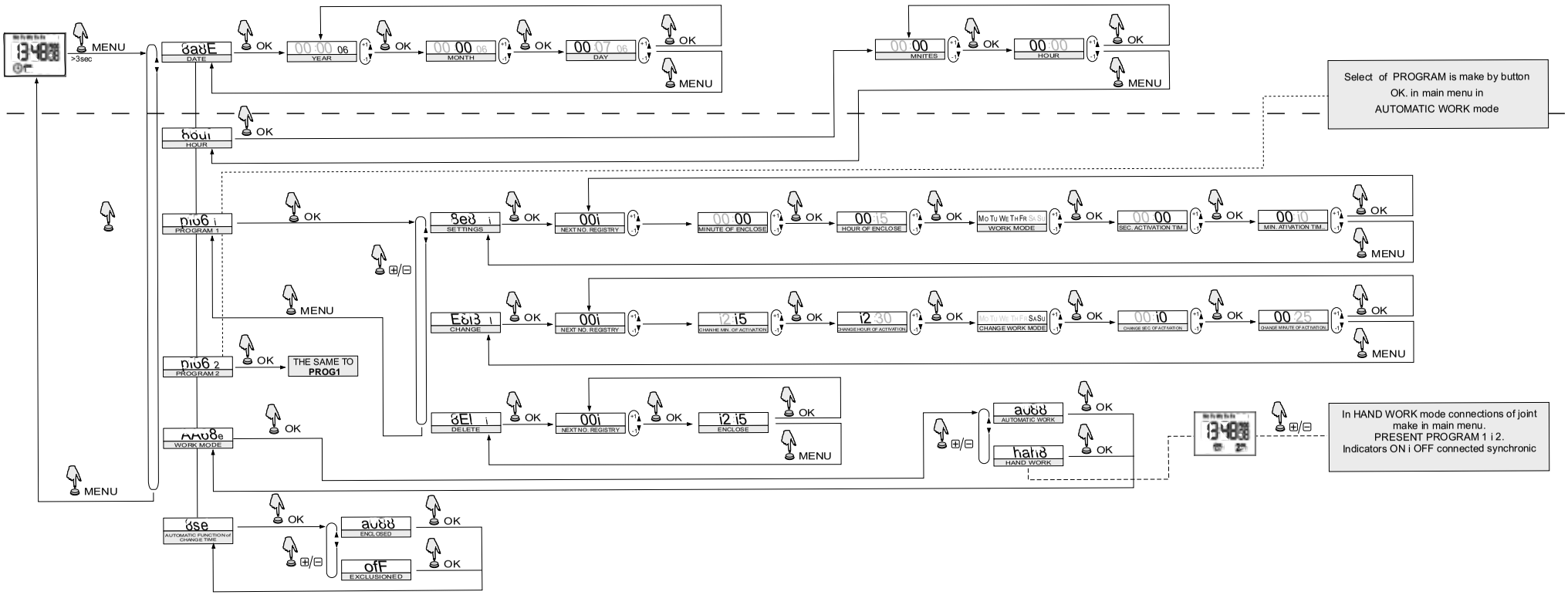
supply	*24÷264V AC/DC*
current load	*<16A*
contacts	*1P*
display maintenance time	*non*
timer maintenance time	*6 years*
indication accuracy item	*1sec*
time deviation	*±1s/24h*
schedule time accurancy item	*1min*
schedule time hold on item	*1sec*
range of hold on time	*1sec÷99min59sec*
no. of program memory sectors	*250*
	2×(60 orders: ON/OFF /program)
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]

A090614



Programming diagram

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