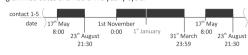


Programmable control timer is used to time control the devices in home or industrial automation systems according to an individual time program set by the user

Functioning

Timer activates and deactivates the device or electrical circuit on the programmed dates and hours in a yearly cycle.



Operating modes and functions

 ON/OFF COMMAND – program entry for enabling or disabling the receiver. 500 MEMORY CELLS – memory for individual program entries that allows to program 250 pairs of ON/OFF COMMANDS.
 AUTOMATIC MODE – operation by ON/OFF COMMANDS programmed by

- the user in the timer memory [highlighted 𝕲 icon on display] MANUAL MODE [ON] permanently closed contact (position 1-5) or [OFF] permanently open contact (position 1-6) when the AUTOMATIC MODE is off [no 🕲 icon on display]
- CYCLE adjustable, weekly cycle (7 days from Monday to Sunday) of the receiver switching in accordance with the programmed ON/OFF COM-MANDS:
- AUTOMATIC TIME CHANGE change from winter time to summer time with options to change automatically or not. User can set the time zone so that the switching time is consistent with the local time

 DATE PREVIEW - the ability to preview the set date (OK.).
 CURRENT PROGRAM PREVIEW - pressing the +/- keys in the date preview mode displays information about the number and details of the current

 NFC WIRELESS COMMUNICATION – wirelessly read and write timer configuration from an Android phone equipped with the NFC module. • PCZ CONFIGURATOR APP – free application for Android mobile phones and

tablets equipped with the NFC module for wireless communication. Features » timer configuration in offline mode (without the connection with the

timer); » read and write the configuration of the controller;

- » quick programming of multiple controllers using a single configuration;
 » read and write the configuration from and to a file;
- » sharing the configuration via e-mail, Bluetooth, network drives...
- » identification of the connected timer and the ability to name individual devices; » automatic backups of the configuration. Along with a unique identifier for

automate backups of the computation. Along with a unique id each timer, user can easily restore previous configuration;
 set the time and date according to the clock in mobile phone.

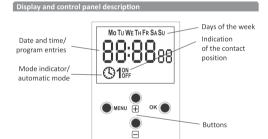
(!)The app is available on Google Play!

 CLOCK TIME CORRECTION – set monthly adjustment of the seconds of the system clock.

BATTERY INDICATOR – the controller comes with built-in control system of the backup timer battery used in case of main power supply failure. If the battery is low, user will receive information that the battery needs to be replaced. Battery life depends on the ambient temperature and the degree of the battery wear.

LCD BRIGHTNESS ADJUSTMENT – change the contrast of the display to get aclear LCD read-out from different viewing angles.
 RELAY STATE MEMORY – set relay state in manual mode is remembered

and restored when the power returns.



MO - Monday; TU - Tuesday; WE - Wednesday; TH - Thursday; FR - Friday; SA - Saturady; SU - Sunday.

Function keys description

MENU

» enter the program menu » return to the previous position (back)

- OK
- » move to the next setting » accept setting» preview of the date"+" [plus]

» change the setting by one position up for the selected programming op tion (holding down the button continuously changes the setting by one position up in a loop)

» in MANUAL MODE: permanent ON and OFF contact switching
 "-" [minus]

» change in the setting by one position down for the selected programming

2. DATE Press MENU. The timer will enter program menu. Using the +/- buttons select the date setting mode DATE



Confirm with OK Timer will show settings for the next parameters: year, month, and day. Use the +/- keys to set the parameters; move to the next parameter with the OK button. Go back to the previous item by pressing MENU.

Press OK to accept date setting. The timer will automatically exit from the

date setting mode and go to the program menu. The date setting is tantamount to time determination: winter or summer In Poland, the time change from winter to summer is done automatically at night, on the last Sunday of March at 2.00 AM (by adding one hour to the current time). Time change from summer to winter is done automatically at night, on the last Sunday of October at 3.00 AM (by subtracting one hour from the current time).

(!)The automatic time change can be turned off (see section 8.1).

3. HOUR Press MENU. The timer will enter the program menu.

Using the +/- buttons select the mode for time setting HOUR



Timer will show settings for the next parameters: hour and minutes. Set the parameters with the +/- buttons. Move to the next parameter with the OK button. Go back to the previous item by pressing MENU.



Press OK to accept time entry. The timer will automatically exit from the date setting mode and go to the program menu.

4. ON/OFF COMMAND (SETTING THE PARAMETERS)

Press MENU. The timer will enter the program menu Using the +/- buttons select the mode for the date setting PROG



Press OK to accept. The timer will enter the memory cell number selecting mode. The display will automatically show the number of the first empty memory cell



Press OK to accept (or select another number using the +/- keys). Clock will enter the single ON/OFF COMMAND parameters setting mode <u>A. Data – dA</u>

Timer will show settings for the next parameters: month and day. Set the values using +/– keys; move to the next parameter with the OK button. Go back to the previous item by pressing MENU.



<u>B. HOurs and minutes – ti</u> Timer will show setting for the next parameters: hour and minutes Set the values using +/- keys; move to the next parameter with the OK button. Go back to the previous item by pressing MENU



<u>C. ON / OFF – Co</u> Timer will allow to choose [ON] or [OFF] option.

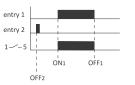


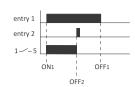
Set ON or OFF using +/– keys; confirm with OK. Timer will automatically enter the next ON-OFF COMMAND parameter input mode. Go back to the previous item by pressing MENU.

The registered ON-OFF commands do not constitute solid pairs of commands for a contact opening and closing. They are treated as individual commands and executed in accordance with the specified time chronology.

Cases of overlapping contact closing times from two pairs of ON/OFF COM-MANDS are illustrated in the following diagrams:







Time of contact closing established by a pair of ON/OFF commands can be longer than 24 hours, which means that [ON] command can be set to any time and any day of the week (e.g. Tuesday, 1:45 PM) and [OFF] command to any hour of any other day of the week (e.g. Thursday, 5.05 PM)

5. EDITION OF ON/OFF COMMANDS PARAMETERS Using the +/- keys select the parameter edit mode EDIT



Press OK to accept. The timer will enter the memory cell number selecting mode. Select the cell to edit and accept by pressing OK

Proceed as with ON/OFF COMMAND parameters setting (see section 4).

6. DELETION (REMOVING ENTRIES) Using the +/- keys select ON/OFF COMMANDS reset mode DEL.



Press OK to accept. The timer will enter the memory cell number selecting mode. Select the cell to be deleted and accept by pressing OK. The timer will be waiting for confirmation. This is indicated by alternating flashing of the number of the selected cell and its set parameters.

next programmed cell number. Pressing MENU will take you to the root level. To erase all previous ON/OFF COMMANDS settings see the section (!)

Confirm by pressing OK. The cell will be deleted. The timer will display the

7. OPERATION MODE

8.6.

Press MENU. Timer will enter program menu. Using the +/- keys select MODE

nn od8

Accept by pressing OK. The timer will enter work mode menu (AUTO/HAND). With +/- keys select desired operation mode:



AUTO – automatic HAND – manual

Accept by pressing OK. The timer will automatically exit the operation mode selection and go to the program menu. Pressing MENU one more time will take the timer back to the root menu.

To change the contact position in the MANUAL OPERATION mode use the +/- keys at the root level. In the absence of any program entries timer will automatically run in MANUAL MODE (there is no option to set AUTOMATIC OPERATION MODE).

8. SYSTEM SETTINGS

Press MENU The timer will enter the program menu. Using the +/- keys select system settings SYST.

Confirm by pressing OK The timer will enter the system settings submenu (DST/UTC/BATT/CAL/LCD /CLEAR/INFO). Select the parameter with the +/- keys and confirm with OK Pressing MENU will take you to the upper level.

5955

8.1. AUTOMATIC TIME CHANGE (DST)

8.2. TIME ZONE (UTC)

H. GH

For examp

pressing OK.



Confirm by pressing OK. The timer will display current parameter for time zone (+12/-12). Pressing +/- keys set time zone for the clock. Confirm by pressing OK. Time zone for Poland is +1.

8.3. BATTERY CHARGE INDICATOR (BATT)

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SYS

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EnnPey

Confirm by pressing OK. The clock will display information about battery charge level.

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HIGH – fully charged, new battery.
GOOD – in good condition, provides long-term operation.

Time adjustment is the number of seconds by which the system clock is ad-justed per month. Setting range: +/- 300 seconds.

If the clock is fast 4 seconds per month, set the parameter value -4.

68L

0

Setting the display contrast. Range: -3 (lowest) ... + 3 (highest)

ter. Use the +/- keys to set the contrast parameter

0

8.6. RESETTING THE COMMANDS, PARAMETER SETTINGS AND

CL 884

Confirm by pressing OK. The timer will enter the submenu (PROG/SYS/ER-

Confirm by pressing OK. The timer will enter the submenu (PROG/SYS/ER-

Confirm selected option by pressing OK. The timer will enter standby mode

awaiting for deletion confirmation. This is indicated by alternating flashing

The timer will start deleting entries. The display will count off consecutive numbers of deleted entries (from 1 to 500). Upon completion the display

LC d

ROR). Use the +/- keys to select reset option.

ProC

ROR). Use the +/- keys to select reset option:

Priobje

PROG – deletion of ON/OFF entries

SYS – deletion of system settings

of PROG and CLEAR on display

Confirm by pressing OK.

Confirm by pressing OK.

will show PROG

PROG

633

Confirm by pressing OK. The clock will display the current contrast parame

Confirm by pressing OK. The timer will display current parameter of time adjustment. Press +/– keys to set desired number of seconds. Confirm by

LOW – low battery level, recommended replacement

EMPTY – discharged, it must be replaced in

58L

8.5. DISPLAY CONTRAST (LCD)

Confirm by pressing OK.

ERRORS (CLEAR)

8.4. SYSTEM CLOCK TIME ADJUSTMENT (CAL)

option (holding down the but on continuously changes the setting by on position down in a loop)

in MANUAL MODE: permanent ON and OFF contact switching

Programming

1. START

Connect the power supply. The timer will start at the root level and the display will show selected hour

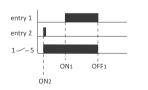


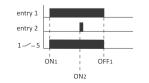
In the absence of any program entries, timer will automatically run in manu al mode. If the previous entries are present, timer will execute the program To erase all previous settings, see section 5.6.

Set individual timer program with internal configuration menu or by using the PCZ KONFIGURATOR app for mobile devices

- 1 -







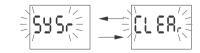


DST (Daylight Saving Time) - international name of summer time Confirm by pressing OK. The timer will enter the menu with the option to disable automatic time change AUTO/OFF. With +/- keys select desired mode: AUTO – with automatic time change; OFF – without automatic time change

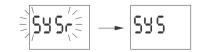


SYS

Confirm selected option by pressing OK. The timer will enter standby mode awaiting for deletion confirmation. This is indicated by alternating flashing of SYSR and CLEAR on display.



Confirm by pressing OK. The timer will start deleting entries. Upon completion the display will show SYS.



If the timer system detects an error, the display will show ERROR message at the root level. At the same time in the CLEAR section (!)the extra ERROR item will appear. Error reset is possible only through the menu (MENU/SYST/CLEAR/ERROR).

Confirm the ERROR option by pressing OK. The timer will enter standby mode awaiting for deletion confirmation. This is indicated by alternating flashing of ERROR and CLEAR on display.

Confirm by pressing OK. The timer will reset the error. The display will show ERROR. The clock will return to standard operation mode

8.7. SYSTEM INFORMATION (INFO)



Confirm by pressing OK. The timer will enter the information menu Browse the information by pressing +/- keys: clock type software version

Low battery

The LOW BATT message indicates that the battery backup clock is too low after a power outage. In this case, battery replacement is recommended. The user can replace the battery by himself with a new, type 2032 lithium

coin cell battery. A film demonstrating how to replace the battery is shown below the product code (scan the QR code):



The low battery level is no obstacle during normal clock operation. However if the clock is not powered, it may result in loss of date and time settings.

All settings, except for time and date, are saved in non-volatile memory and are not lost in the event of a power outage and low battery.

Under proper operating conditions, a new, charged battery is suf-ficient for approx. 6 years of operation. Low temperatures or long periods of operation without AC power can shorten this period.

Technical data

| power supply | 24÷264 V AC/DC |
|-------------------------------|--|
| maximum load current (AC-1) | 16 A |
| contact | separated 1×NO/NC |
| backup time clock operation | 6 years* |
| batterry type | 2032 (lithium) |
| backup time display operation | none |
| accuracy of the clock | 1 s |
| error time | ±1 s/ 24 h |
| time program setting accuracy | 1 min |
| program memory cells | 500 |
| | (250 pairs ON/OFF commands) |
| power consumption | 1.5 W |
| terminal | 2.5 mm ² screw terminals (cord 4.0 mm ² screw terminals (wire |
| tightening torque | 0.5 Nm |
| working temperature | -20÷50°C |
| dimensions | 2 modules (35 mm) |
| mounting | on TH-35 rai |
| protection level | IP20 |
| | |

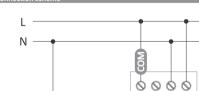
* battery life addicted to weather coditions and frequency of mains failure

Insta

1) Turn off the power. Mount the timer on the TH-rail in the distribution box.

Connect wires according to the diagram.
 Connect receivers according to the diagram.

5) Set the correct date (see section 2) and time (see section 3) 6) Set individual switch-on time programs for receive



PCZ Configurator app Main window

New configuration – opens window for creation of a new controller configuration. Open configuration – opens window for loading the program configuration

stored as a file in the phone memory. My device – gives access and support for all backup copies of configurations assigned to specific devices

Information – application user guide



New configuration

 New – creates new, empty configuration file (without any programs). Load from PC – new configuration is created based on a program saved in the PCZ controller. Select this option and bring the phone closer to the timer to load the program from the phone to the application. Load from file - new configuration is created based on a files saved by the user. Opens a window with a list of files previously saved by the user. Restore - a new configuration is created based on a backup copy of one of

the previous configuration. Tapping this icon opens window with a list of backups split into controllers in which they were written. Select a new configuration option opens another window



The function window allows to edit program as well as to load and save configuration to a PCZ controller. It appears automatically when we bring the phone closer to the controller, or when we create a new configuration. In the upper part of the screen the application displays a frame with following infor

Dev – supported controller type

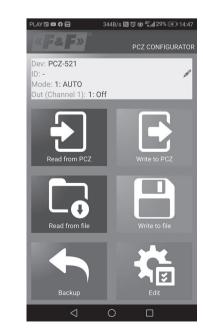
 ID – unique identifier of connected controller (appears only when the application is connected with the controller. In the Offline mode that field remains empty). Icon of a pencil on the right-hand side allows you to enter your own name for the controller.

- Operating mode displays the current operating mode for the controller (manual or automatic). Applies only to operating in Online Out mode – Output relay status (enabled or disabled). Applies only in online mode.
- Keys:
- 1) Read the timer configuration. 2) Save the current configuration to the timer.
 3) Load configuration from file.
- 4) Save the current configuration to file
- 5) Restore configuration from backup copies. 6) Edit the current configuration.

Edit Editing window allows you to edit current configuration (new, loaded from file or from PCZ)

Editing window consists of three tabs: List – a list of all programs (in the order in which they are stored in the

memory). Filter – a list of programs that will be executed on the selected day (in chronological order by program execution).
 Settings – system settings configuration.



List

Main part of the screen is taken by the list of PCZ programs. Programs are displayed sorted by the time they are written in the controller memory. Each program is symbolized by:
Action icon – the green "v" means that the specific program will activate

relay. Red "x" means deactivation of relay. • Date and time – show days of programs activation and their start time

Program number - program position in the controller memory. Bold font marking represents a program that is (or should be) executed. Pressing the trash bin icon next to the program entry deletes program. To add a new program select ADD PROGRAM. To edit an existing program tap into the edited program.

The three icons at the bottom of the screen allow you to:

Save to PCZ – saves the configuration to a file.
 Save to PCZ – saves the configuration to a timer.

Back – returns to the function window

Upon returning to the function window, current configuration is stored in application memory.



Filter

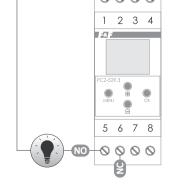
Filter tab performs a similar function to LIST. In this case, at the top of the screen appears addition frame for choosing the day and time interval for which the application displays a list of programs active during that time. Programs are displayed in chronological order, sorted by the time of their actual execution



Adding and editing programs

Add or edit program displays a window with following options: Operation – selects whether the program will turn the relay on or off.
 Day – selects the days of program execution. You can select a single day, Monday - Friday, Saturday - Sunday, all week. Time – selects the time of program execution





- COM contact input
- 3-4 timer power supply
- 5 NO contact output ("standard open" position)
- 6 NC contact output ("standard closed" position))

CE declaration

A copy of the CE declaration is available to download from the website www.fif.com.pl from product subpage.



Programming scheme

The programming scheme for the timer is available for download on the product's subpage. Website address: www.fif.com.pl.