

The PCZ-525.3 Plus astronomical clock is designed to switch on and off lighting or other electrical receivers according to the daily astronomical sunrise or sun set times calculated automatically based on the current date and the entered location of the controller. It is also possible to enter a fixed on/off time and define a night break during which the lighting will be switched off. In combination with the external "Plus" probe brightness sensor the clock al

lows you to adjust the on/off moment according to the actual brightness level



2. Operating modes

2.1. AUTOMATIC MODE tic operation according to the preset programmed ON and OFF points The clock allows for independent setting of switch-on and switch-off points according to the following criteria:

sunrise or sunset; dawn or dusk (civilian dawn/ dusk);

• a constant shift in relation to sunrise and sunset (expressed in minutes or the position of the sun shield relative to the horizon);

 constant time. Also, a night break between POFF and PON points can be set in the operating

program during which the lighting will be switched off. If an external brightness sensor of the "Plus" probe type is connected and activated, it is possible to specify an additional time interval around the switch-on points **on** (Switch-on Zone) and switch-off points **one** (Switch-off Zone) in which the clock will analyze the actual brightness level and on this basis decide on an earlier or later switch-on/off. This makes it possible, for example, to switch the

lighting on and off earlier in case of cloudy days. Automatic operation is indicated by the clock symbol at the bottom left of the display.

For correct operation in automatic mode, it is necessary to correctly (!)set the location, date, and time

2.2. SEMI-AUTOMATIC MODE

Semi-automatic operation is the ability to manually switch the contact during automatic operation. The change will be effective until the next switching resulting from the automatic operation cycle. An example of how semi-automatic mode works is shown in the diagram below



vitching between automatic and semi-automatic mode is done by pressing the external button connected to terminal 4 of the clock or by pressing the "+ or "-" button located on the facade of the clock. Semi-automatic operation is indicated by a blinking clock symbol at the bottom left of the display.

2.3. MANUAL MODE

In manual mode, the clock assumes a fixed on/off state set by the user by pressing the external button connected to terminal 4 of the clock, or by pressing the "+" or "-" button located on the facade of the clock. Manual operation is indicated by the switched off clock symbol.

The status of the relay in manual mode is maintained in the non-volatile memory of the clock. This means that in the event of a power outage and return, the clock will restore the state of the relay from before the power outage.

3. Features

 1-channel astronomical programmable control timer with night break; automatic transition between summer (daylight saving time) and standard time (with the ability to block the function in the event of a change in the

- applicable legislation); ability to connect an external brightness sensor to adjust the moment of light
- ing switching on and off; ability to connect an external button for manual control of the operation of

the clock: backlit LCD for clock configuration and time and operating status indication;
 NFC WIRELESS COMMUNICATION – wirelessly read and write timer configura-

tion 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:

- s timer configuration in offline mode (without the connection with the timer);
 » coordinates settings by selecting the preset location (code coordinates), a direct indication of the location on a map on your phone or copying the current position recorded by the GPS in your phone; » 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 each timer, user can easily restore previous configuration:
- » set the time and date according to the clock in mobile phone predefined lighting switch-on and off points:
- sunrise and sunset the moment when the

4. Display and control panel description Days of the weel Mo Tu We Th Fr Sa Su -Indication Date and time/ 88:8888 of the contact program entries position Mode indicator/ S10FF automatic mode ок 🔴 MENU 🕂 Buttons

4.1. DAYS OF THE WEEK

mo – Monday; TU – Tuesday; WE – Wednesday; TH – Thursday; FR – Friday; sa – Saturday: su – Sunday

4.2. OPERATION MODE INDICATOR MANUAL MODE - no clock icon

AUTOMATIC MODE – lighted clock icon, SEMI-AUTOMATIC MODE – flashing clock icon.

4.3. CONTACT POSITION INDICATION

 OFF – relay off, closed connection between COM (terminal 1) and NC (terminal 5) contacts, ON – relay on, closed connection between COM (terminal 1) and NC (terminal 1) 6) contacts.

4.4. BUTTONS

"+" [UP]

MENU enter the program menu

- return to the previous position (back).
- move to the next setting
- accept setting preview of the date and the scheduled points of switch on/off and the lo cation
- While displaying the home screen:
- » in automatic mode switching on/off semi-automatic mode and switching the contact: » in manual mode: permanent on and off contact switching.
- In parameter edit mode:
- » changing the setting state by "+1" in the selected programming position (holding down the button changes the setting by "+1" continuously in the loop).
- "-" [DOWN]

5. Operation

- While displaying the home screen:
 » in automatic mode switching on/off semi-automatic mode and switching the contact; » in manual mode: permanent on and off contact switching.
 - In parameter edit mode
- » changing the setting state by "-1" in the selected programming position (holding down the button changes the setting by "-1" continuously in the loop).

Connect the power supply. The timer will start its operation from the main

screen displaying the current time and information on the operating mode and switch-on/off of the output relay.



- From the home screen, you can monitor and configure the operation of the device.
- Pressing the MENU button displays the menu of the controller that allows you to configure the clock.

Pressing the OK button displays the set date. In addition, after pressing the or button in automatic mode, by pressing the **D** or **DOWN** buttons you can display the subsequent details of the timer: the set date, the location of the controller (longitude and latitude), the points of lighting switch-on and off.

In the case of operation with an active outdoor light sensor, the switch-on and switch-off points are approximate and indicate at what time it will be switched on/off in the case of the currently measured brightness level.

Pressing the UP/DOWN button: When operating in automatic mode, the timer switches to the semi-automatic mode and switches the contact to the opposite position. This state will be maintained until the next program switching point occurs.

During manual operation, the relay contact is permanently switched to the opposite position

The status of the relay in manual mode is maintained in the non-vol-atile memory of the clock. This means that in the event of a power outage and return, the clock will restore the state of the relay from before the power outage.

The clock can also be controlled via an external momentary button connected to terminal 4. Short press (<1 s) of the external button has a similar function to the UP/DOWN button pressing described above. Long press (>2 s) of the exter nal button, when operating in automatic or semi-automatic mode, forces the clock to return to automatic mode.



5.1. LOW BATTERY

settings.



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. 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

All settings except for time and date are saved in non-volatily

If the message Err ... appears, turn off the power supply of the timer, wait about 10 seconds and turn the power on again. If the error is repeated, please contact the service

6.4.2. MANUAL LOCATION SETTING

N – northern hemisphere;

the previous position by pressing the MENU button.

S – southern hemisphere;

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6.4.2.1. LATITUDE

longitude setting.

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6.4.2.2. LONGTITUDE

cisków +/- parametró

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E – półkula wschodnia

W – półkula zachodnia;

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6.4.2.3. TIME ZONE

by 30 minutes

switch-off points:

(!)

time

6.5.1. SWITCH ON

SUNSEE

the sunset

sun angle position shift).

to display the **on** menu

SUNSET – astronomical sunset

długość w stopniach i minutach kątowych

For Poland, set up a time zone +1

6.5. PROGRAM ON/OFF POINTS AND NIGHT BREAK

in the morning is to switch on again;

Press MENU. The timer will enter program menu.

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

Use the +/- buttons to select the correct moment of activati

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at a similar brightness level.

6.5.2. POFF (BEGINNING OF THE NIGHT BREAK)

buttons to select the **POFF** setting.

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ON – controls the moment the light is switched on in the evening.

OFF – controls the moment the light is switched off in the morning.

When you select a manual location setting, prepare the correct set of coordinates: latitude and longitude and the time zone related to UTC.

When the User option is selected (see 6.4), the timer will move to the latitude setting, where, using the +/- buttons, you will be able to sequentially set:

a latitude in degrees and minutes of arc. Switch to editing the next latitude element by pressing the **oκ** button. Return to

Pressing the $\mathbf{o}\mathbf{\kappa}$ button after setting the minutes moves the program to the

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Ustawienie długości geograficznej wprowadzenia kolejno, za pomocą przy

Setting the selected time zone t is done with the +/- buttons. Large digits indi-

cate hours, small digits - minutes. A single push of the button moves the zone

Confirm the location setting by pressing the **ok** button – the timer will automat-

The PCZ-525.3 Plus timer allows you to define 4 independent switch-on and

POFF – the beginning of the night break, which is the period in the middle of the night when the light is to be switched off;

PON - the end of the night break, which is the moment from which the light

The entered night interruption times are a permanent pair that exe-cutes switching on and off of the contact. They are treated as single

commands and are executed according to the chronology of the set

E PA

TIGHT – civil twilight
 TIME – setting of the "rigid" hour of the switching on that is independentfrom

USER – ustawienia użytkownika. The switch-on time in the user settings is set as a shift of the switch-on point

in relation to the sunset time. When selecting the USER option, first of all, you

should choose whether the switch-on time shift in relation to sunset will be expressed as time (ti) or as the angular position of the sun disc (*). Confirm the

selected unit by pressing the OK button and then, using the +/- buttons, enter the numerical shift value (within ±180 minutes for the time shift or ±15° for the

Due to the different length of dawn/dusk depending on the season of

the year and latitude, it is recommended to adjust the correction to

the position of the center of the sun disc (°) to ensure switch-on/off

When operating with the external light sensor switched on, the \mathbf{ON} switch-on point is approximate, as the actual moment of switch-on

will depend on the set width of the operating zone of the TLIGHT

brightness sensor (6.6.3) and will be, depending on the brightness level (6.6.4 and 6.6.5), between (**ON** – **TLIGHT**) and (**ON** + **TLIGHT**).

Confirm selected setting by pressing the \mathbf{OK} button, the timer will then return

Press the MENU button. The clock will enter the program menu. Press the +/-

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USEr

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ically go to the LOCATE menu. Pressing MENU will return to longitude editing

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6. Configuration

The operation of the timer can be configured using the timer control nanel and nu, or via the PCZ Konfigurator app for Android mobile the configuration me devices equipped with NFC communication module.

6.1. DATA

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 para with the **ok** button. Go back to the previous item by pressing **MENU**.

The day of the week is set automatically based on the year, month and day you entered



Press \mathbf{OK} to accept date setting. The timer will automatically exit from the date setting mode and go to the program menu Choosing a date means that the correct time is also set at the same time: stand-

ard (winter) or summer (daylight saving time).

The automatic time change can be turned off. (!)More information see section 6.7.1

6.2. HOUR

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



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



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

6.3. OPERATION MODES

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

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Select operation mode using the +/- buttons

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HAND – manual mode Press ok to accept. The timer will automatically exit from the date setting mode and go to the program menu

6.4. LOCATION

Setting the correct location of the timer is one of the key elements responsible for the operation of the astronomical clock and the correct calculation of sunrise and sunset times.

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

LIST – select location from the list of coordinate codes,

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6.4.1. SELECTING A LOCATION FROM THE LIST

Press **ok** to accept

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LOCALE

manual setting of the user geographical position and time zone

Check the table of coordinate codes located at the diagram of programming Find the country and the city closest to your location and the corresponding

The timer will enter country selection menu. Using the +/- buttons select the

country. Accept by pressing OK. The timer will enter the coordinate code selection. Using the +/- buttons select desired code from the list. Press OK.

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P0L);

» civilian dawn and dusk – the moment when, according to legal conditions the lighting of, for example, streets should be switched off/on;

- ability to set your own switch-on/off point interpreted as a sunrise/sunset shift by:
- » preset time (within ± 180 minutes).
- » preset position of the center of the solar disc (within ±15°);
- ability to set the width of the time zone (in relation to the program switch) on/off point) in which the moment of switch-on will be determined by the brightness level measured by the "Plus" probe sensor;
- Iocation table the geographical coordinates of more than 1,500 localities from 51 countries of the world are encoded in the memory of the timer, allowing you to precisely select the location of the timer and ensure high accuracy of the position of the sun calculation;
- a preview of the switch-on and switch-off points and location information if the timer operates in automatic mode, then in the date preview mode the successive presses of the Up/Down buttons will display information about the current time, the actual switch-on and switch-off times of the relay and about the set location (geographical coordinates are displayed) and the UTC zone;
- LCD configuration ability to set the backlight level (separately for standby and button-pressed condition) and display contrast; relay state memory – the relay state in manual mode will be stored in the
- relay state memory read-only memory of the relay at the time of a power outage and will be restored when the power returns:
- 2032-type replaceable battery the controller is equipped with control of the battery status that maintains the timer operation in case of main power failure. If the battery is low, you will be notified if it needs to be replaced;
- clock frequency correction the ability to freely accelerate/slow the clock operation. For example, if, over time, the controller starts to be 5 seconds late per month, this deviation can be corrected.

ory and are not lost in the event of a power outage and low battery.

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

5.2. DEVICE ERROF



ternal PCZ timer error indication. The error may be caused by external inte ference, configuration error, or it may indicate a controller failure

will automatically go to the location settings menu Pressing the MENU button will move you to a higher level.

POLEON

After selecting a location from the list of locations, there is no need to write common geographical ordinates. The full list of locations (write ed in timer memory) you find from the product subpage on www.fif com.pl. Scan QR code below.



and then the minute at which the night break should start. Confirm the edited value by pressing the **ok** button. After confirming the minute, the clock will return to display the POFF menu. Return to the previously edited value by pressing the **MENU** button.

Confirm your selection by pressing OK. Use the +/- buttons to set the hour first

ΙQ.

Setting the beginning and end of the night break to the same time blocks the activation of the night break, as shown in the diagram helow



PPZW - program points of switching on and off PN - night break

6.5.3. PON (END OF THE NIGHT BREAK)

Press the MENU button. The clock will enter the program menu. Press the +/buttons to select the **PON** setting.



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Confirm your selection by pressing OK. Use the +/- buttons to set the hour first and then the minute at which the night break should end. Confirm the edited value by pressing the OK button. After confirming the minute, the clock will return to display the **PON** menu

Return to the previously edited value by pressing the MENU button 6.5.4. SWITCH OFF - SUNRISE)

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

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Press OK to accept. The timer will enter to the switch option selection (SUNRISE/ DAWN/TIME/USER)

Select mode using the +/- buttons



SUNRIS – astronomical sunrise

DAWN – civil twilight

TIME – setting of the "rigid" hour of the switching on that is independent from the sunset;

 USER – user settings. The switch-off time in the user settings is set as a shift of the switch-off point in

relation to the sunrise time. For a description of the setting, see 6.5.1.

Confirm selected setting by pressing the ok button, the timer will then return to display the **on** menu.

When operating with the external light sensor switched on, the OFF switch-on point is approximate, as the actual moment of switch-off will depend on the set width of the operating zone of the **TLIGHT** brightness sensor (6.6.3) and will be, depending on the brightness level (6.6.4 and 6.6.5), between (OFF - TLIGHT) and (ON + TLIGHT).

6.5.5. SCENARIOS

The following are examples of settings combinations for some of the most com mon applications of the PCZ-525 clock.

6.5.5.1. NIGHT BREAK

In this case, the light is switched on in the evening (according to the astronomi-cal settings), in the middle of the night (from the preset time to the preset time) the light is switched off and then on again until morning. The operating diagram for this case is shown in the following figure:





PN – night break Settings:

- Set the evening switch-on time of the lighting with the **on** parameter. If the light is to be switched on at the desired sun position in relation to the horizon, select **SUNSET**, **TLIGHT** or **USER** (6.5.1).
- The beginning of the night break (the time when the light switches off at inght should be set using the **POFF** parameter (6.5.2).
 The end of the night break (the time when the light switches on again before
- dawn) should be set using the PON parameter (6.5.3).
- The morning light switch-on time should be set using the **OFF** parameter. If the light is to be switched on at the desired sun position in relation to the horizon, select **SUNSET**, **TLIGHT** or **USER** (6.5.4).

6.5.5.2. SWITCHING ON IN THE EVENING AND SWITCHING OFF AT THE PRESET TIME

The lighting is to be switched on in the evening and switched off at a certain



PPZW - program points of switching on and off

PN – night break Settings:

• ON - if the light is to be switched on at the desired sun position in relation to

the horizon, select **SUNSET**, **TLIGHT** or **USER** (6.5.1); **P ON = P OFF = 0:00** – night break disabled (6.5.5.2 and 6.5.5.3); • OFF – select the option to switch off at a fixed time TIME and then enter the time at which the switch off is to take place (6.5.4).

6.5.5.3. SWITCHING ON AT THE PRESET TIME AND SWITCHING OFF IN THE MOR NING

The lighting switches on at a fixed, selected time and switches off in the me ing



PPZW – program points of switching on and off PN – night break

Setting:
 ON – select the option to switch off at a fixed time TIME, and then enter the time at which the switch off is to take place.

P ON = P OFF = 0:00 - night break disabled (6.5.5.2 i 6.5.5.3) • OFF – If the light is to be switched off at the desired sun position in relation to the horizon, select **SUNRIS, DAWN** lub **USER** (6.5.4).

6.6. BRIGHTNESS SENSOR

6.6.1. BRIGHTNESS LEVEL READING A parameter that allows you to read the brightness level measured by the sen sor connected to the clock

To display the parameter, enter the **SENSOR** menu, then select the LU option using the +/- buttons and confirm the selection by pressing the ok butto



The indication on the display can now take one of three forms: brightness sen sor off, no reading













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Exceeding the acceptable measuring range of the transmitter





by the PCZ should be used.

Confirm your selection by pressing OK

٤S - 0.

off late

6.6.3. SWITCH-OFF ZONE

the selection by pressing the ok button

6.6.4. BRIGHTNESS LEVEL FOR SWITCHING-ON

the **ok** button.

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the ok button

tion by pressing the **oκ** button

tion by pressing the **OK** buttor

6.7. SYSTEM SETTINGS

6.7.1. AUTOMATIC TIME CHANGE

hour to the current time).

ok button.

by pressing ok.

6.6.5. BRIGHTNESS LEVEL FOR SWITCHING-OFF

6.6.2. SENSOR ACTIVATION

pressing **o**k

sensor off



Since the brightness measurement is carried out with a photoresistor its accuracy may be relatively low. Therefore, when setting the bright

ness level for switching on (6.6.4) and off (6.6.5) the values measured

To enter the brightness sensor activation option, enter the SENSOR menu, then

select the ON-OFF option using the +/- buttons and confirm the selection by

0n - 088

Use the +/- buttons to select the appropriate option: LS ON - sensor on, LS OFF

- **O**ff

LS

Activation of the sensor when it is not physically connected to the

clock will be interpreted as a very low level of brightness and will each time cause the light to be switched on earlier and then switched

TLIGHT time before and after the programmed switching points, which will take

into account the brightness level to speed up or delay the switching-on time. To enter the switch-off zone length setting, enter the **sensor** menu, then select

the TIME option using the +/- buttons and confirm the selection by pressing OK

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Use the +/- buttons to set the desired width of the switch-on zone and confirm

Brightness level ${\bf LU}$ on [Ix] below which the speed-up of the light switching-on and the delay of the light switching-off will occur.

To set the value of the LU ON parameter, enter the SENSOR menu, then select

the LU ON option using the +/- buttons and confirm the selection by pressing

- 0-LU.

Use the +/- buttons to set the desired brightness level and confirm the selec

The brightness level can be set in the range of 2÷500 lx.

Brightness level LU OFF [X] above which the delay of the light switching-on and the speed-up of the light switching-off will occur.

To set the value of the LU OFF parameter, enter the SENSOR menu, then select

the LU ON option using the +/- buttons and confirm the selection by pressing

- Off

The LU ON < LU OFF condition must always be met.

LU.

The LU ON < LU OFF condition must always be met.

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Measured brightness level [lx]



The clock will display information about battery charge level

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Confirm selected option by pressing OK. To exit the parameter without saving the changes, press the MENU button

The clock includes checking the battery charge status. To check the battery level, enter the **syst** (6.7), then use the **+/-** buttons to go

6825

it yourself. To do this, you first need to estimate the error of time measurement in seconds on a monthly scale. Next press **MENU** button and go to **SYST** (p. 6.7).

183

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

Confirm by pressing OK, to exit edit mode without making any changes

The operation of the timer is based on a quartz resonator, the natural

feature of which is aging causing a change in the resonance frequency and thus reducing the accuracy of time measurement.

Contrast setting allows you to adjust the display method to the location of in-

stallation - liquid crystal displays have a low viewing angle and by modifying

the contrast level, you can ensure that the digits are correctly visible from the top (high contrast setting), front and bottom (low contrast setting).

To change the contrast, enter the SYST menu (6.7) and then use the +/- buttons

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A preview of the changes is visible already during editing. To confirm the change

Each time you press a button on the panel of the controller, the backlight of the display gently brightens to the active level.

To set the brightness level for active backlight, enter the syst menu (6.7) and

L[d 0-

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The display remains active for 60 seconds from the last press of the

es, press the OK button, to exit the edit mode without making changes - pre

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to select **CONTR**. Confirm your selection by pressing **OK**.

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Using +/- select contrast parameter

LC d

the **MENU** button.

the MENU button.

6.7.4.3. BACKLIGHT (STANDBY)

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6.7.4.2. BACKLIGHT (ACTIVE)

use the +/- buttons to select LCD ON. Confirm your selection by pressing OK

Use the +/- buttons to set the required brightness level

Un.

The preview of changes is already visible during editing. To confirm the changes, press the ok button. To exit the edit mode without making changes - press

The standby backlight level is maintained throughout the entire operation of

The clock (except when the button on the facade is pressed). To set the brightness level of the backlight in standby mode, enter the **syst**

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• HIGH – fully charged, new battery

With +/- keys select desired mode:

ΙΑυξο

AUTO – with automatic time change; OFF – without automatic time change

6.7.2. BATTERY CHARGE INDICATOR

to BATT and confirm by pressing OK

9F F

Using +/- select required parameter

PC - Sas

To exit the parameter, press the MENU buttor

maximum load current (AC-1)

backup time clock operation

backup time display operation

accuracy of the clock

power consumption

tightening torque

working temperature

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

2) Mount the timer on the TH-rail in the distribution box

5) Set the correct date (see section 6.1.) and hour (see section 6.2.).

NOS COM

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1 2 3 4

. MINU

5678

996

COM contact input

timer power supply ON/OFF button

NC contact output

NO contact output

brightness senso

("standard closed" position)

("standard opened" position)

28

29

30 31

32

33

34 35

36 37 38

39 40 Poland

41

42 Russia

43 44

45

46 47

48 Sweden

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F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of Directive 2014/53/EU of the European Parliament and of

the Council of 16 April 2014 on the harmonization of the laws of the Member

The CE Declaration of Conformity, along with the references to the standards

in relation to which conformity is declared, can be found at www.fif.com.pl on

12. Programming scheme

the product's subpage. Website address: www.fif.com.pl.

The programming scheme for the timer is available for download on

States relating to the making available on the market of radio equi repealing Directive 1999/5/EC.

Italy Lichtenstein

Luxembourg Latvia

Macedonia

Monaco

Malta Mongolia Holland

Norway

Portugal

Romania

Serbia

Slovakia

Slovenia

Tajikistan

Ukraine

Uzbekistan

Turkmenistan

San Marino

Moldova

Lithuania

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-INPUT

3) Connect wires according to the diagram

6) Perform clock software configuration

9. Connection scheme

2-3

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7-8

10. Table of locat

Albania

Armenia

Austria

Bulgaria

Belarus

Cyprus

Danmark

Germany

Estonia

Finland

Georgia

Croatia

Hungary

Ireland

Iceland

11. CE declaratio

the product page

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13. PCZ

Great Britai

10

11 12

13 14

15

16 Spain

17 18

19 France

20 21

22 Greece

23 24 25

26

Kazakhstan

Kyrgyzstan

Switzerland

Czech Republic

Azerbaijan Belgium

Bosnia and Hercegovina

4) Connect receivers according to the diagram

7. Technical data

contact

power supply

battery type

error time

terminal

dimensions

protection level

mounting

8. Installation

1) Turn off the power.

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24÷264 V AC/D0

separated 1×NO/NC

2.5 mm² screw terminals (cord) 4.0 mm² screw terminals (wire)

16 A

6 years*

none

1.5 W

0.5 Nm

-20÷50°C

IP20

2 modules (35 mm)

on TH-35 rail

±1 s/ 24 h

1 s

2032 (lithium)

 GOOD – in good condition, provides long-term operation
 LOW – low battery level, recommended replacement EMPTY – discharged, it must be replaced immediately

6.7.3. SYSTEM CLOCK TIME ADJUSTMENT If you notice that the time is measured incorrectly by the timer, you can correct

Using +/- select CAL parameter and confirm OK.

Using +/- select desired correction value

(8L

MENU button

6.7.4. DISPLAY

6.7.4.1. CONTRAST

sensor of the lus" probe-type car the PCZ-525.3 Plus clock (to terminals 7 and 8). The use of an element that measures the actual brightness level allows adjusting the moment of switching on/off the lighting to actual conditions. And so, for example, on a dark and cloudy day, the switching-on should take place earlier and the switching-off later directly resulting from the position of the sun and astronomical calculations. To properly configure the connected brightness sensor, set the following pa rameters

Switch on the sensor (6.6.2):

 Determine the TLIGHT time zone around the programmed switching points where brightness measurement will be taken into account (6.6.3); Set the brightness level below which the lighting can be switched on (6.6.4);

 Set the brightness level which, if exceeded, will switch off the lighting (6.6.5). The operating principle is shown in the diagram below:



point

If in the selected switching zone the measured brightness level drops below the value set in parameter 6.6.4, switching-on will take place before the OM time. If the measured brightness level is greater than the value set in parameter 6.6.5, switching-on will take place after the **on** time.

To enter the brightness sensor configuration menu, press the MENU button. The clock will enter the program menu. Press the +/- buttons to select the SENSOR setting.



The brightness level can be set in the range of 2÷500 lx.

The system settings menu contains a group of parameters designed to con

figure auxiliary controller parameters. To enter the system settings, press the

MENU button, then use the +/- buttons to select SYST and confirm the selection

SYSE

In Poland, according to the current law, there is a change of time from standard

to summer time (DST) on the last Sunday of March at 2.00 a.m. (by adding 1

The change of time from summer to standard time is made on the last Sunday of October at 3.00 a.m. (by subtracting 1 hour from the current time).

In the PCZ-525.3 Plus timer, the automatic time change function (DST) is ena-

Use the +/- buttons to set the desired brightness level and confirm the selec

LC 8868

menu (6.7) and use the +/- buttons to select LCD ON.

Use the +/- buttons to set the required brightness level.



The preview of changes is already visible during editing. To confirm the changes, press the $\mathbf{0}\mathbf{K}$ button. To exit the edit mode without making changes – press the MENU button

6.7.5. SYSTEM INFORMATION (INFO)

Information about the device type and software version are available in the INFO menu. To display them, enter the SYST menu (6.7), use the +/- buttons to select INFO. Confirm by pressing OK.



PCZ Konfigurator app available for download on website address: (!)www.fif.com.pl



https://play.google.com/store/apps/details?id=pl.com.fif.clock

bled by default. To change the settings of the **DST** mode, select the **SYST** menu (6.7), then select **DST** with the +/– buttons and confirm the selection with the

dSt

- 7 -

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 JSZ6-2
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 AC220V
 JSZ3F
 60s