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PCZ-522.4

Weekly
programmable,
control timer, 2-channel



Do not dispose of this device in the trash along with other waste!

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Purpose

The PCZ-522.4 two-channel programmable timer is used for time control of devices in home or industrial automation systems, according to an individual time schedule set by the user. The timer switches the controlled electrical circuit on and off at the programmed times in the following cycles: daily, weekly, working days (Mon-Fri) or weekend (Sat-Sun).

Features

- » Possibility to operate in automatic mode (according to a preset time schedule) or in manual mode;
- » Independent operating programmes for each output;
- » Memory of 250 programme steps per relay output;
- » A single command of the controller defines:
 - relay action (on/off);
 - the hour and minute at which the relay action will be performed;

- programme repeat cycle: every day of the week, on a selected day of the week, on working days (Mon-Fri) or weekend days (Sat-Sun).
- » Automatic switching between summer and winter time;
- » Replaceable battery to maintain timer settings in the event of power failure;
- » NFC wireless communication providing the ability to read and save the timer configuration wirelessly using a smartphone and the free PCZ Configurator app. **Writing/reading data to the timer via NFC connection does not require the timer to be powered.**
- » The PCZ Konfigurator app is designed for smartphones equipped with an NFC wireless communication module and running Android or iOS. The application enables:
 - prepare the configuration offline, without the need to access or connect to the timer;
 - read and write configurations to the timer (requires direct proximity of the smartphone to the front of the timer);
 - quick programming of multiple timers using a single set of settings;
 - reading and writing configurations to a file;
 - sharing the configuration via e-mail, network drives, instant messaging, etc.
 - unambiguous identification of the connected timer and the possibility to give the devices their own names;
 - automatic backup of read configurations, which, combined with the unique identifier of each timer, allows quick restoration of previous settings;

- setting of time and data based on the smartphone timer (requires power connection at the time of programming);
- » Relay status memory that restores the last relay status after power failure and recovery;
- » Display contrast correction capability for clear LCD readouts for different viewing angles.

Functioning

The PCZ-522.4 timer controller can operate in one of two modes:

» **Automatic mode**

Operation in automatic mode consists in automatic processing of all programmes stored in the controller's memory. When the time stored in the programme is reached, a relay action is executed (on/off), which is maintained until the next programme execution starts. The programmes are executed in the order they are arranged in time, not in the order they are stored in the timer's memory. When the power is switched on, the timer automatically finds and executes the programme that should be executed at the given moment.

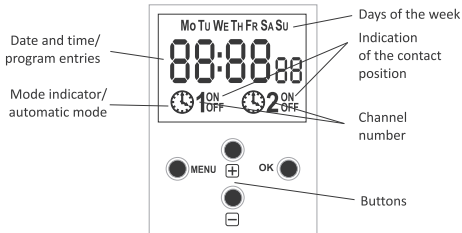
» **Manual mode**

In manual mode, the list of programmes stored in the controller's memory is ignored and switching on/off is carried out manually by the user. In manual mode, the state of the relays can be changed by pressing the "+" (channel 1) or "-" (channel 2) button.



The status of the relays operating in manual mode is restored when the power supply returns.

Display description



Manual



The full manual for the PCZ-522.4 timer can be downloaded from www.fif.com.pl from the product sub-page or via the QR code below:



Mobile app

The control application is available free of charge in the App Store and Google Play:

Application available on:



<https://apps.apple.com/pl/app/f-f-pcz-konfigurator/id6446887053?l=pl>

Application available on:



<https://play.google.com/store/apps/details?id=pl.com.fif.clockprogramer>



The NFC connection uses very short-range communication, which means that you need to directly touch the phone to the front of the programmed controller.

Working mode indication

Display	Mode	Relay status
 1 ON OFF	automatic	ON
 1 ON OFF	automatic	OFF
 1 ON OFF	manual	ON
 1 ON OFF	manual	OFF

Legend:

	ON
	blinks/pulses
	OFF

Control buttons

Button	Description
MENU	Pressing the button enters the controller's configuration mode. In parameter edit mode, pressing Menu will drop the parameter being edited (without storing the changes made) and return to the parent menu level.
OK	In edit mode, pressing the button moves to edit the next setting item. If the last item is being edited, pressing the OK button will save the new parameter value, exit the edit mode and move to the higher menu level. In the time display mode, pressing the OK button will display a quick access menu allowing the display of information about the current date, details of the programme currently being executed and access to working time statistics.

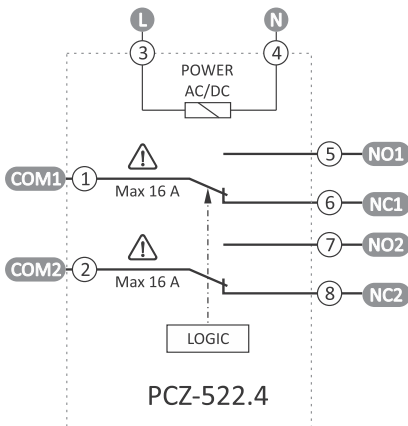
Control buttons cont.

Button	Description
+ (Up)	In edit mode, pressing the button increases the value of the edited parameter by 1. If the button is pressed for a long time, the value of the parameter will cyclically increase by 1. In manual operation mode, pressing the button will permanently switch the relay contact in channel 1 (ON -> OFF or OFF->ON).
- (Down)	In edit mode, pressing the button decreases the value of the edited parameter by 1. If the button is pressed for a long time, the value of the parameter will decrease cyclically by 1. In manual operation mode, pressing the button will permanently switch the relay contact in channel 2 (ON -> OFF or OFF->ON).

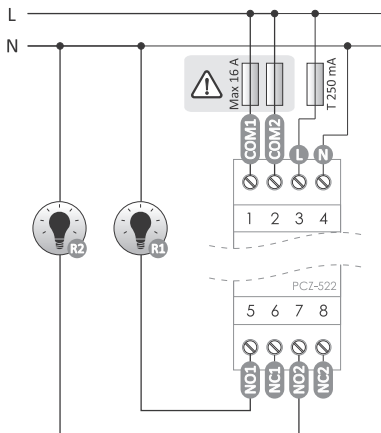
Mounting

1. Turn off the power.
2. Install the clock on the rail in the distribution box.
3. Connect the power cables according to the diagram.
4. Connect receivers according to the diagram.
5. Set the correct date and time.
6. Set the software configuration of the timer.

Controller diagram



Wiring diagram



- 1 relay – COM1 common contact
- 2 relay – COM2 common contact
- 3 L power supply
- 4 N power supply
- 5 relay 1 – NO1 contact (normally open)
- 6 relay 1 – NC1 contact (normally closed)
- 5 relay 2 – NO2 contact (normally open)
- 6 relay 2 – NC2 contact (normally closed)

Technical data

power supply	24÷264 V AC/DC
maximum load current (AC-1)	2×16 A
contact	separated 2×NO/NC
backup time clock operation	6 years*
battery type	2032 (lithium)
backup time display operation	none
accuracy of the clock	1 s
error time	±1 s/ 24 h
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 rail
ingress protection	IP20

* Battery life depends on operating conditions and how long the timer is powered by battery only. Low ambient temperature greatly reduces the life of the battery.

Warranty

The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us.

CE declaration

F&F Filipowski L.P. 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 States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC.

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 the product page.