ZCM-42 TIME PROGRAMMER Wi-Fi-CONFIGURABLE

exta

ZAMEL Sp. z o.o.

ul. Zielona 27, 43-200 Pszczyna, Poland
tel. +48 32 210 46 65, fax +48 32 210 80 04
www.zamel.com, e-mail: export@zamel.pl

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DESCRIPTION

The ZCM-42 time programmer is used to perform time functions in automation and control systems. It can control loads connected to outputs depending on the hour and day of the week as well as sunrise and sunset times (including information on geographical coordinates of the place of time programmer installation, current date, and time shift set). The programmer also offers the possibility of setting one-time events – executed on a given day of the year – and makes it possible to define exceptions (time periods during which control is executed differently than set in weekly and astro schedules). The programmer allows you to program 80 events for all types (weekly, astro, and one-time events as well as exceptions), but the main advantage of this programmer is that they are not simply ON/OFF pairs but independent events, which allows for very flexible control of the connected devices – for example, you can turn on a device using the astro function and turn it off using the weekly function. Parameters are set via a website thanks to the Wi-Fi module included with the device. In addition, the programmer keeps device settings without requiring a battery when there is a power failure and offers the possibility of importing/exporting saved schedules.

FEATURES

• control based on sunrise and sunset times,
• option to change calculated sunrise and sunset times manually,
• control based on hour and day of the week,
• option to program one-time events and exceptions,
• setting parameters via a website thanks to the Wi-Fi module,
• no need to install any applications,
• settings are kept without requiring a battery.

Hereby, ZAMEL Sp. z o. o. declares that the radio equipment type ZCM-42 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.zamel.com

TECHNICAL DATA

Nominal supply voltage:	230 V AC 50 / 60 Hz
Supply voltage tolerance:	-15 ÷ +10 %
Nominal power consumption:	0.75 W - Wi-Fi disabled 0.85 W - Wi-Fi enabled 1.4 W - with one relay turned on 2 W - with two relays turned on
Transmission:	Wi-Fi 2.4 GHz b/g/n
Operating range:	100 m in the open area*
Transmitting power:	ERP < 20 mW
Supply voltage / Wi-Fi status signalling:	LED (green)
Number of outputs:	2
Input state signalling:	2 LEDs (red)
Parameters of relay contacts:	2 x NO/NC 16 A / 250 V AC (inrush: 111 A / 20 ms)
Number of inputs:	2
Can be used with:	monostable (returnable), bistable switches
Schedules:	astro, weekly, yearly, exceptions
Number of events:	80 for all schedule types
Settings are kept by:	supercapacitor - settings are kept for 24 hours
Operating temperature:	-10 ÷ +55 °C
Operation position:	any
Enclosure mounting:	DIN-Rail
Enclosure IP rating:	IP20
Number of connection terminals:	10
Cross-section of connection cables:	0.2 ÷ 2.5 mm²
Overvoltage category:	II
Contamination degree:	2
Dimensions:	two-module enclosure 90x35x66 mm
Weight:	163 g

* The operating range given refers to an open area, i.e. ideal conditions, without obstacles. If there are obstacles between the transmitter and the receiver, the operating range should be expected to be reduced by: 10-40% for bricks, 5-20% for wood and plaster, 40-80% for reinforced concrete, 90-100% for metal, and 10-20% for glass. In addition, overhead and underground high-voltage power lines as well as cell towers located near devices have a negative impact on the operating range.

APPEARANCE

Supply terminals L, N

Input terminals IN1, IN2

L   N   IN1   IN2

Power / Wi-Fi activity signalling

● U / STATUS

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Wi-Fi activation / deactivation button

● Wi-Fi

Antenna port

SSID: ZCM-42-XXXX
IP: 192.168.4.1

Input state signalling

CH1 CH2

12 11 14   24 21 22

Output terminals 12, 11, 14

Output terminals 24, 21, 22

CE
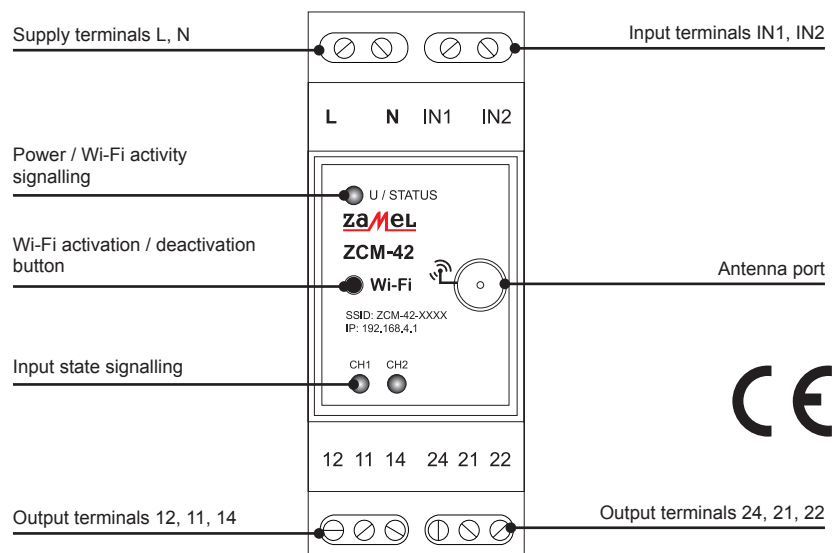
WIRING DIAGRAM

NOTE! The ZCM-42 controller should be connected to a one-phase network in accordance with legally binding standards. Any activities related to installation, connection, and adjustment should be performed by qualified electricians who have read this user's manual and familiarised themselves with device functions.

1. Disconnect the power supply circuit with a fuse, circuit breaker, or a switch disconnector connected to the appropriate circuit.
2. Check voltage-free condition on power cables using a proper measuring instrument.
3. Connect the ZCM-42 device according to the wiring diagram.
4. Feed supply voltage.
5. Configure the device (see CONFIGURING THE DEVICE).
6. Check if the device operates properly.
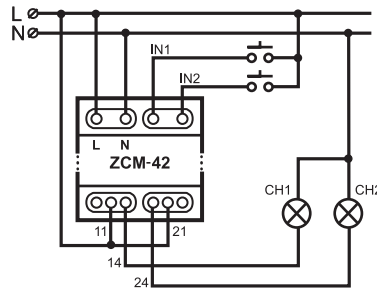
CAPACITY

- 1250 W AC5b
- 300 W AC5a
- **LED** 100 W
- 600 W AC5a
- 450 W AC5a

CONFIGURING THE DEVICE

If the U/STATUS LED is turned off after connecting the device to the power supply, press and hold the Wi-Fi button for 3 seconds, which will activate the Wi-Fi module in the programmer. Then on a mobile device search for a Wi-Fi network with the name that starts with ZCM-42-XXXX and connect to it by entering the proper password (default password: zamel123). Then enter 192.168.4.1 in an Internet browser. The „Home Page" of the ZCM-42 programmer (Fig. 1) will be displayed, containing information on the current firmware version, date, time, sunrise and sunset times, and geographical coordinates. Below you can find buttons used to turn on/off relays. The bar at the bottom allows you to switch between individual tabs.

The second tab is used to control schedules (Fig. 2). At the top of the tab you can choose schedule type. Below you can find a list of saved schedules of a given type as well as information on when a given schedule will be executed and what action it will trigger. The user can turn on/off every schedule and delete it. Go to the schedule adding screen by pressing the „+" button in the bottom right corner. There is a field for selecting schedule type at the top (you can choose between one-time, weekly, astro, and exception type). The next fields to be displayed depend on the type of schedule selected. For one-time schedules, you can configure date and time; for weekly schedules, you can configure the hour and day of the week; for astro schedules, you can configure the day of the week, event (sunrise or sunset), and time shift (in the range of -120 to +120 minutes). For exceptions, you can define the date and the range of hours for which the exception is to apply. The last element to be defined before saving a schedule/an exception is the action to be triggered – you can choose between turning on/off a single relay or both relays, turn on a relay for a defined time, and for exceptions – operation according to one-time schedules. After all settings are made, press the „Add schedule" / „Add exception" button.

The third tab is used to export / import schedules (Fig. 3). Press the „Export" button to save all schedules on the memory of the device from which the configuration is made. The „export.zcnf" file is saved in the default folder for files downloaded in the browser. To import schedules that have already been exported, first choose the file in which they are stored and then press the „Import" button.

The fourth tab (Fig. 4) allows you to configure time settings (date, hour), settings for geographical coordinates (required to calculate sunrise and sunset times), Wi-Fi settings, input settings, and language settings. In the Wi-Fi settings, you can change the password for the programmer Wi-Fi network, enter the SSID and password for the router, and update the firmware. In the input settings, you can configure the „Switch time" parameter for each input, which defines the time (in minutes) for which the relay corresponding to a given input will be turned on (time „0" means that the relay will not be turned off automatically), while the „Time-based mode" parameter (in seconds) allows you to define the time for which schedules operating in time-based mode will turn on relays. You can also select the users language in the fourth tab.

To restore the clock to the factory settings, press and hold the PROG button for 10 seconds. (NOTE: All saved schedules will also be deleted).
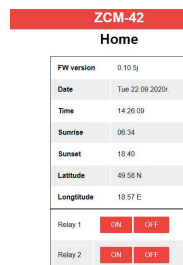
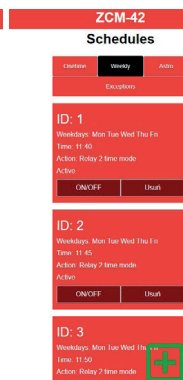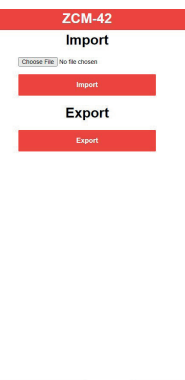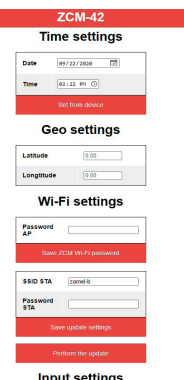| ZCM-42 Home		ZCM-42 Schedules	ZCM-42 Import	ZCM-42 Time settings
FW version	0.10.5j		Choose File No file chosen	Date 09/22/2020
Date	Tue 22.09.2020r.		Import	Time 02:22 PM
Time	14:26:09			Set from device
Sunrise	06:34		Export	Geo settings
Sunset	18:40		Export	Latitude 0.00
Latitude	49.58 N			Longitude 0.00
Longtitude	18.57 E			Wi-Fi settings

Fig. 1   Fig. 2   Fig. 3   Fig. 4

UPDATING THE FIRMWARE

The firmware of the ZCM-42 programmer can be updated remotely. This operation requires a router connected to the Internet. In the programmer settings, enter the SSID name and the password for the route and then save the programmer firmware settings. Then press the „Update firmware" button. The ZCM-42 programmer will try to connect to the router Wi-Fi network and will check if there if a firmware update is available. If it is, it will download and update the firmware. Once the firmware update process is completed, the programmer will restart automatically and return to normal operation.

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