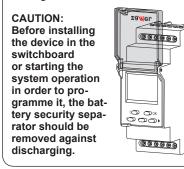
ZCM-12, ZCM-12/U TIME PROGRAMMER WEEK'S. DOUBLE CHANNEL

INSTRUCTION MANUAL



The ZCM-12 control timers are designed for time functions execution in automatics and control systems. The week's programmer controls the output relay in dependence of program settings (day, hour). The device is fitted with some additional functions, among other things the random function that is used for the operating mode changing by means of an external push button. It is possible to mount the device on TH 35 rail and seal it if needed. In case of power supply malfunction the unit battery sustain enables all settings saving and maintaining.



FEATURES

- Week's cycle control in dependence of the current hour.
- Double-module casing with a protection flap,
- Random op mode, additional IN control inputs,
- Double-channel version.
- Many programs,
- LCD display illumination,
- Mounted on TH 35 rail.

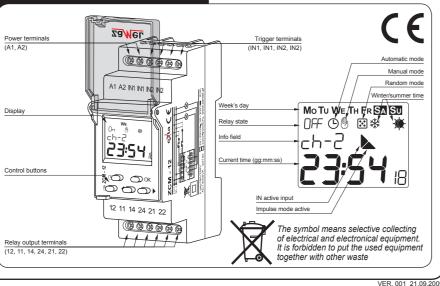


The device is designed for sin-gle-phase installation and must be installed in accordance with standards valid in a particular country. The device should be CAUTION connected according to the de-

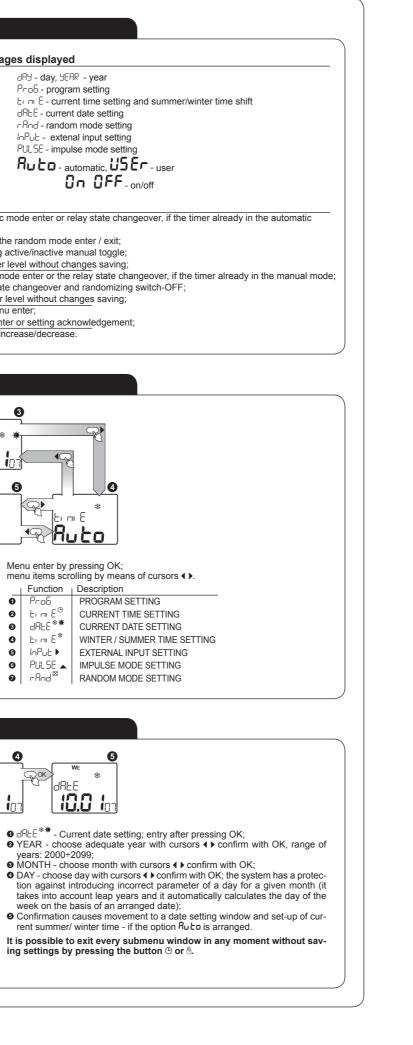
tails included in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to instal the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.

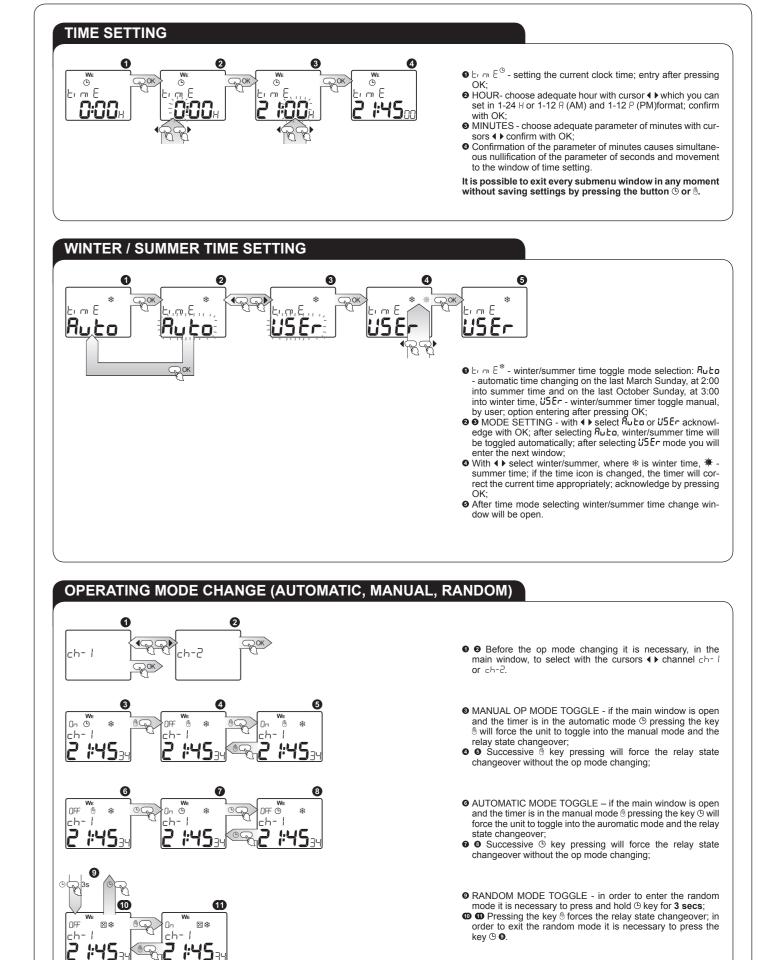
| Zakład Mechaniki i Elektroniki ZAMEL sp.j. J.W. Dzida, K. Łodzińska ul. Zielona 27, 43-200 Pszczyna, Poland Tel. +48 (32) 210 46 65, Fax +48 (32) 210 80 04 www.zamelcet.com, e-mail: marketing@zamel.p | za/el | |
|--|--|--|
| TECHNICAL DATA | | |
| ZCN | 1-12 | |
| Power supply terminals: | A1, A2 | |
| Input rated voltage: | ZCM-12: 230 V AC (-15 ÷ +10 %) ZCM-12/U: 24 ÷ 250 V AC, 30 ÷ 300 V DC | |
| Nominal frequency: | | |
| Rated power consumption: | 2 W / 14 VA | |
| Number of channels: | 2 | |
| Program quantity: | 400 (100 On/Off pairs per channel) | |
| Program: | daily, week's | |
| Operating modes: | manual, automatic, random, impulse | |
| Change of season summer/ winter: | | |
| Colour of LCD panel lighting: | | |
| Input: | | |
| Accuracy of time measurement: | · | |
| Time of clock maintenance: | 3 years | |
| Time of programme maintenance: | 10 years | |
| Clamps of release system: | IN1, IN1, IN2, IN2 | |
| Receiver input (supply) terminals: | 11, 12, 14, 21, 22, 24 | |
| Output relay parameters: | | |
| Number of terminal clamps: | 12 | |
| Section of connecting cables: | | |
| Ambient temperature range: Operating position: | | |
| Mounting: | - | |
| • | IP20 (PN-EN 60529) | |
| Protection level: | | |
| Overvoltage category: | 11 | |
| Pollution degree: | 2 | |
| Dimensions: | double-modular (35 mm) 90x35x66 mm | |
| Weight: | 0,140 kg | |
| Reference standards: | PN-EN 60730-1; PN-EN 60730-2-7 PN-EN 61000-4-2,3,4,5,6,11 | |

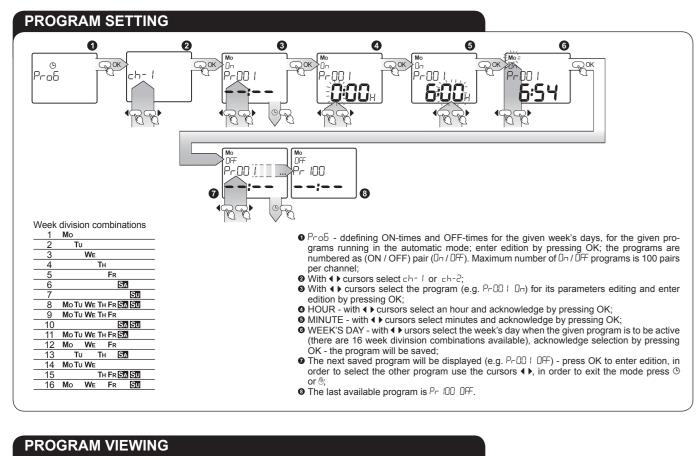


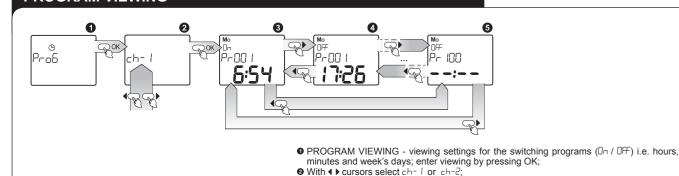


| DESCRIPTION | |
|-----------------------|---|
| | |
| | Description of elements and messag |
| | MoTu We Th FR SO SO - days of week |
| | 0⊓ 0开 - transmitter's status ℗ - automatic mode |
| □FF ଓଡି⊠* ☀ ∟⊢-╎ ⊾ | 🖲 - manual mode |
| | 🖾 - random mode |
| | - impulse mode - external input |
| | ✤ - winter time |
| | ♥ - summer time ch-1 ch-2 - channels |
| X0 0 0 0 0 3 2 C W | |
| | Button description |
| | in the main window – the automatic r mode; |
| | in the main window (3 seconds) – the in the random mode – randomizing a |
| | the other windows – exit to a higher I |
| | in the main window – the manual mo |
| | in the random mode – the relay state the other windows - exit to a higher left |
| | • in the main window – the main menu |
| | • the other windows – a submenu enter • window/option toggle or set value inc |
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| MAIN MENU | |
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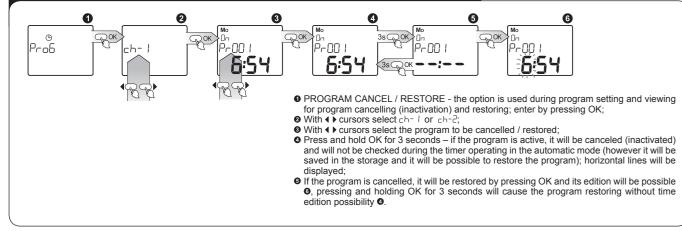


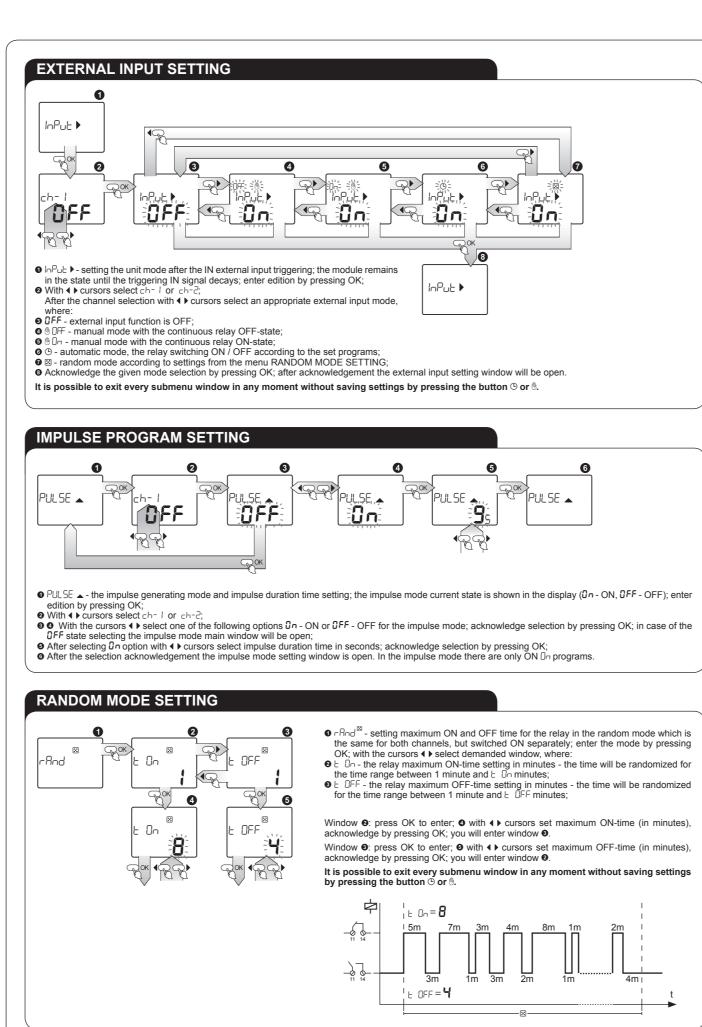


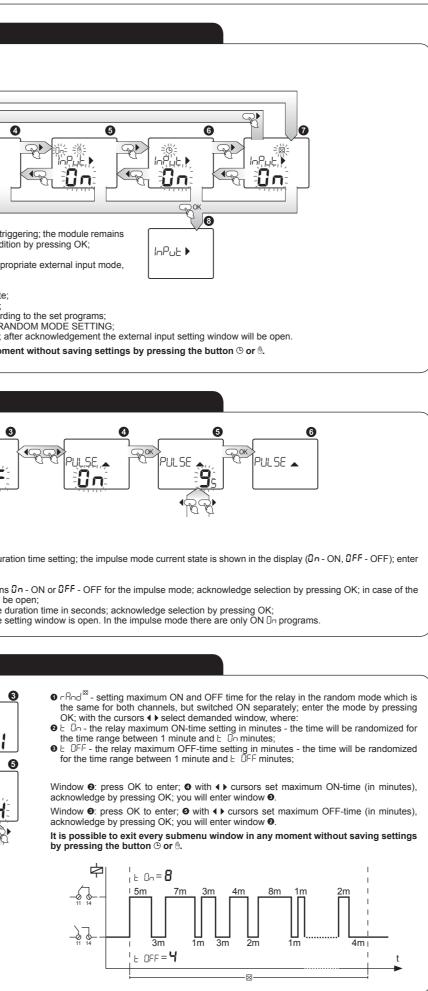


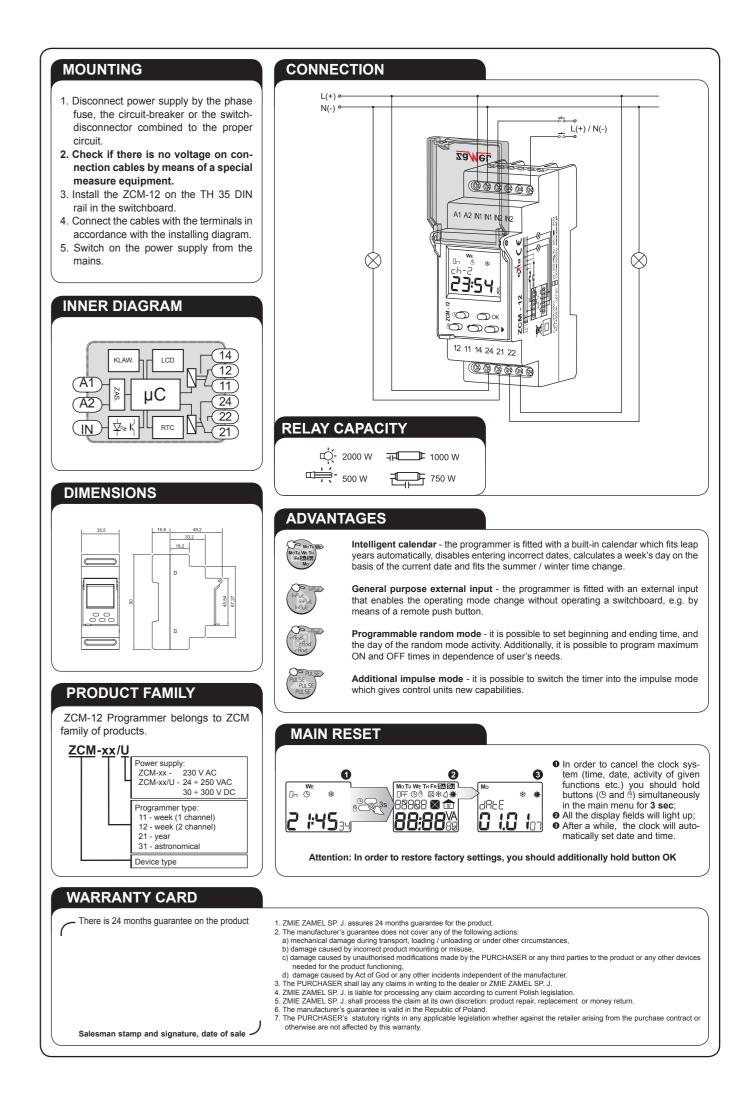
- ● In order to scroll programs press successively the cursors +; cursor increases program number; cursor 4 decreases program number;
- The programs are numbered in the form of $(\mathbb{D} / \mathbb{D} \mathbb{H})$, pairs, where each program may be treated independently; there are 400 programs (100 $\mathbb{D} / \mathbb{D} \mathbb{H}$ pairs per channel).
- It is possible to exit every submenu window in any moment without saving settings by pressing the button (or ().











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 H5CN-XANS DC12-48
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