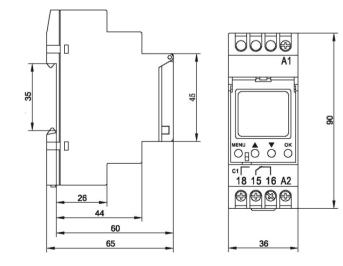


# Dimensions



# DIN RAIL DIGITAL TIMER



### IMPORTANT!

Read this manual before operating the device and keep it for future reference. Performing repairs or modifications by the customer voids the warranty. The manufacturer is not liable for any damage that can result from improper installation or operation of the device.

(EN) Installation and operation manual

Since the technical data is subject to continuous modification, the manufacturer reserves the right to modify product specifications or introduce other design solutions that do not impair product performance or usability. Additional information on ORNO products is available at: www.orno.pl. Orno-Logistic Sp. z o.o. is not liable for consequences resulting from failure to comply with the recommendations found in this manual. Orno-Logistic Sp. z o.o. reserves the right to make changes to the instruction – the current version can be downloaded from www.orno.pl. Any rights to translate/construe and the copyright of this manual are reserved. Disconnect the power supply before performing any activities. The device must be installed by qualified personnel – persons having knowledge of marking and earthing of electrical appliances as well as regulations concerning safety. Improper installation can cause a risk of electric shock.

- 1. Disconnect the power supply before performing any activities.
- 2. Do not use the device for any other purpose than intended.
- 3. Store the device in a dry location.
- 4. Do not immerse the device in water or other liquids.
- 5. Do not install or operate the device with damaged housing.
- 6. Do not modify or repair the device yourself. Removal of the enclosure will void the warranty and may result in electric shock.
- 7. Before connecting the power supply, make sure that all cables are properly connected.
- 8. The power consumption of connected electrical devices must not exceed the maximum load.

Every household uses electric and electronic equipment and therefore is a potential producer of waste that is hazardous for people and the environment due to the presence of hazardous substances, mixtures, and components in the equipment. On the other hand, used equipment is a valuable source of such raw materials like copper, tin, glass, iron, etc., which can be recovered.



The symbol of a crossed litter bin placed on the equipment, its package or accompanying documents means that the product must not be discarded together with other waste. At the same time, the label indicates that the equipment has been introduced to the market after 13 August 2005.

It is the responsibility of the user to transfer the used equipment to a designated collection point for proper processing. Information on an available system of used electronic equipment collection can be found at the shop information desk and at the municipality/commune office.

Proper disposal of used equipment prevents negative consequences for the natural environment and human health!

MANUFACTURER

ORNO-LOGISTIC Sp. z o.o.

ul. Rolników 437, 44-141 Gliwice, tel. 32 43 43 110, www.orno.pl



### Description

OR-PRE-433 digital timer is used for the implementation of time functions in control and automation systems. It operates according to the set time schedule planned by the user. There is an internal battery protecting the real-time clock and all settings when the electric power supply is off.

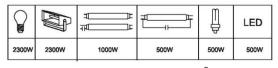
### Properties

- Digital timer with weekly and pulse programs
- 3 years of backup power (lithium battery)
  52 programs (26 on/off cycles)
- Sealable cover of the front panel; easy setting using 4 keys
- Automatic summer/winter time switchover
- LCD display
- Holiday mode
- Multilanguage
   Manual control using keys (AUTO, MANUAL, ON, OFF)
- Manual control using keys (A010, MANUAL, ON, V
   Automatic transfer of weekdays
- 220–240 VAC power supply
- Double-module, mounted on a DIN TH-35 rail

# Specifications

Supply terminals	A1-A2	0
Rated voltage	220–240 V AC	
Rated frequency	50/60 Hz	- ô
Power consumption	1 W	
Supply voltage tolerance	±10%	ā
Number of channels	1	
Number of programs	52	23-
Program	weekly, daily, pulse	```
Operating modes	manual, automatic, holiday	
Summer/winter time	off, automatic change	
Time tolerance	fi 1 s/day at 25°C	
Power reserve	3 years	
Data readout	LCD display	
Number of relay contacts	3 (NO, COM, NC)	
Max. contact current	16A/250V AC, 16A, 30V DC	
Rated insulation voltage	250 V	
Protection degree	IP20	
Pollution degree	3	
Operating temperature	-20°C~55°C	
Permissible relative humidity	≤50% (40°C, noncondensing)	
Storage temperature	-30°C~70°C	
Cable cross-section	1 mm <sup>2</sup> ~4 mm <sup>2</sup>	
Tightening torque	0.5 Nm	
Installation	TH-35 rail (EN60715)	Relay ou
Dimensions	90×36×64 mm	
Standard	IEC/EN 60730-1/1EC/EN 60730-2-7	

### Permissible load capacity



# Operation instructions

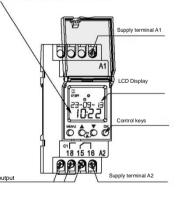
# O Panel

#### Description of symbols

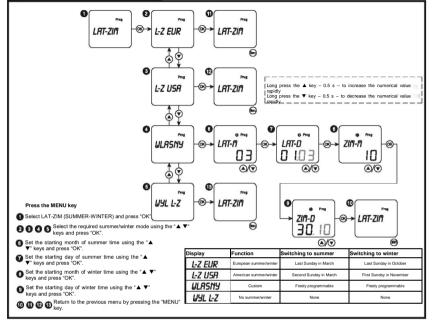
1234587 — Days	of the week Monday, Tuesday,Sunday
C1 — Channel 1	
In OFF - Relay status	→ Pulse mode
O — AUTO mode	
MANUAL mode	
🛱 — Holiday mode	
Winter time	
Summer time	
Prog - Program setting	
Keys	



### 23-09- /3 DD-MM-RR, 23 września 2013 r.



### Summer/winter time switchover



# Reset



### □ Keys combination for MANUAL control

O AUTO/RECZNIE (AUTO/MANUAL)



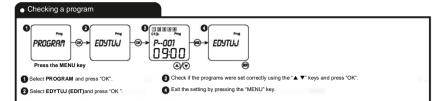
Simultaneously press the "  $\blacktriangle$   $\P$  ' keys to enter the manual ON mode. When the programs are activated, the manual mode will exit automatically.

### O WLACZ/WYLACZ (ON/OFF)

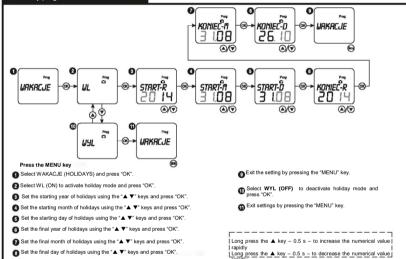


Simultaneous press the "  $\blacktriangle$   $\forall$  " keys for 2 s. The output status of channel 1 switches to WLACZ/WYLACZ (ONOFF),  $\oint$  flashes.

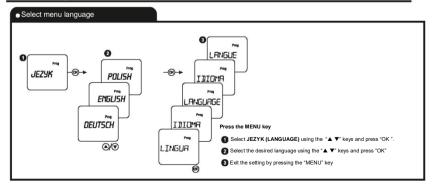
RUTO	AUTO mode
RECZNIE	MANUAL mode
ULRCZ	PERMANENT ON mode
<b>UYLRCZ</b>	PERMANENT OFF mode



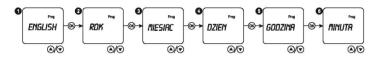
# Holiday program



Language settings



Initial operation



Select the desired language using the "▲ ▼" keys and press "OK".

2 Select the desired year using the "▲ ▼" keys and press "OK".

Select the desired month using the "▲ ▼" keys and press "OK".

④ Select the desired day using the "▲ ▼" keys and press "OK".

Select the desired hour using the "▲ ▼" keys and press "OK".

6 Select the desired minute using the "▲ ▼" keys and press "OK".

Main menu

