



TECHNICAL MANUAL
DIGITAL TIMER
TE-15 EKF

1 DESCRIPTION

Digital timers TE-15 EKF are designed for automating the control of household and industrial electrical systems based on preset scenarios by turning electrical devices on/off at specific times. With a built-in clock the timers can also be used to keep time. The device is mounted onto a standard 35mm DIN rail.

2 DESIGN AND OPERATION

The digital timer consists of the following components: power supply, microprocessor, LCD, programming buttons, relay with changeover contacts, terminal block, backup battery and power ON LED. Power supply is connected through terminals 1 and 2.

Load is connected to terminals 4 (common), 5 (NO), and 3 (NC).

To set the current time and the day of the week, hold the ⌚ (time) button pressed and select the required values by pressing the H (hour), M (minute), and D (day) buttons.

The microprocessor of the timer enables simultaneous storage and execution of 8 timed load switching scenarios.

Scenarios can be programmed using the buttons on the front panel of the timer. The LCD has two display modes: current time (press the ⌚ button), and programming (press the Ⓟ button).

The ON LED lights up, when the timer is activated.

Programming

1. Connect the timer to power supply. Press the RESET button. During the first 8 seconds, the timer status is automatically polled (all symbols on the LCD are displayed), then the time countdown starts.

2. The 24-hour scale is used by default. To switch to the 12-hour scale, press and hold the  button for 5 seconds.

3. Set the current date and time. Holding the  button pressed, press the D (day) button to set the current day of the week (symbols on the display: MO – Monday; TU – Tuesday; WE – Wednesday; TH – Thursday; FR – Friday; SA – Saturday; SU – Sunday).

Press the H (hours) and M (minutes) buttons to set the current time.

4. To set the scenario, refer to table 1.

*) 10 options: any day of the week, seven days of the week, five working days of the week from Monday to Friday, weekend: Saturday and Sunday.

**) Press the  button to complete programming of any number of cycles.

5. To cancel the programmed ON/OFF scenario, press the  button to select the scenario, and press the MODE button. The time will be displayed as dashes.

6. Use the MODE button to restart the set scenario.

When the relay contacts are initially open, AUTO OFF is displayed; when the relay contacts are closed, AUTO ON is displayed.

7. If required, deactivate the scenario and set the required contact status manually with the MODE button:

- initial status of the relay contacts (OFF);
- ON (inverse) status of the relay contacts (ON).

Table 1

Step	Button	Function	Display
1		Set the 1-st ON cycle	1 ON
2	D	Set the day of the week	Symbols of days
3	H / M	Set hours and minutes	Time in numeric characters
4		Set the 1st OFF cycle	1 OFF
5	D	Set the day of the week	Symbols of days
6	H / M	Set hours and minutes	Time in numeric characters
7	Repeat steps 2-6	Set the 2nd to 8th ON/OFF cycles	Corresponds to step
8		Complete setting process	Current time in numeric characters

The digital timer complies with IEC 60730-1.
Altitude above sea level is max. 2000 m.

3 TECHNICAL DATA

Table 2

Characteristics	Values
Switching current, A	16
Power consumption, W	6
Setting range	1 min to 168 hours
Number of programmable switching scenarios	8
Max. time error, s/day	±2
Min. scenario keeping time at loss of power, hours	150
Min. mechanical endurance, cycles	10 000
Min. electrical endurance, cycles	10 000
Degree of protection	IP20
Rated voltage, V	220-240
Operating temperature, °C	-25 to 50

4 WIRING DIAGRAM

220-240 V
50/60 Hz

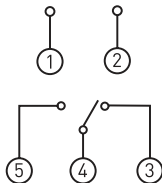


Fig. 1

5 OVERALL AND INSTALLATION DIMENSIONS

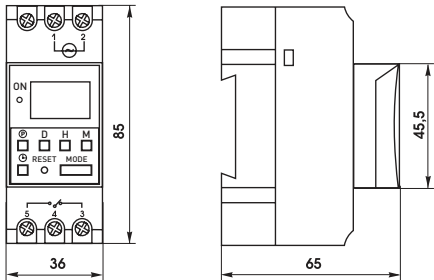


Fig. 2

6 DELIVERY SCOPE

The timers are supplied in a group package. For all available documentation, scan the QR-code on the insert or on the inside of the package.

7 STORAGE AND TRANSPORTATION

Timers can be transported by any means of enclosed transport that ensures protection of packaged products from mechanical impact and atmospheric exposure.

Timers shall be stored in the original package indoors at the ambient temperature from -40°C to $+50^{\circ}\text{C}$ and relative humidity of max. 98% at $+25^{\circ}\text{C}$.

8 MANUFACTURER'S WARRANTY

Warranty period: 7 years from the date of sale, specified in the sales receipt.

Service life: 10 years.

Shelf life: 7 years from the date of manufacture, specified on the product or packaging.

Manufacturer: OOO Electroresheniya, Otradnaya st., 2b/9, 127273, Moscow, Russia, tel. +7 (495) 788-88-15.

MEA regional headquarters: EKF ELECTRICAL SOLUTION FZCO, Office 249, Techno Hub-2, Dubai Silicon Oasis, P.O. box 341079, Dubai, United Arab Emirates, tel. +971-4-547-06-18.

Importer and EKF trademark service

representative in the territory of the Republic of Kazakhstan:

TОО «Energoresheniya Kazakhstan», Kazakhstan, Almaty, Bostandyk district, Turgut Ozal st., 247, apt 4.

Date of manufacture: for information, refer to the product package.

Quality control stamp



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