Perel EDIN305N

Perel EDIN305N Digital Weekly Timer User Manual

Model: EDIN305N

INTRODUCTION

The Perel EDIN305N is a 230V 16A 3600W DIN-rail mount digital weekly timer designed for indoor use. This device allows for precise, programmable control of electrical circuits, enabling automatic switching ON and OFF of connected appliances or lighting systems over a weekly cycle. It features a clear digital display and multiple programming options to suit various scheduling needs.

SAFETY PRECAUTIONS

WARNING: Electrical installation should only be performed by a qualified electrician. Incorrect wiring can lead to electric shock, fire, or damage to the device and connected equipment. Always disconnect power at the main circuit breaker before installation or maintenance.

- Ensure the power supply matches the device's specifications (230V~50Hz).
- Do not exceed the maximum load capacity of 16A / 3600W.
- This device is designed for indoor use only. Avoid exposure to moisture, dust, or extreme temperatures.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Keep out of reach of children.

PRODUCT OVERVIEW

The Perel EDIN305N digital timer consists of a main body with a digital display, control buttons, and terminal blocks for electrical connections. A transparent cover protects the display and buttons.

Figure 1: Front view of the Perel EDIN305N Digital Weekly Timer. The image displays the LCD screen, control buttons (R, W+, H+, M+, C+, Clock, Manual, RES/RCL), and numbered terminal blocks (1, 2 at the top, 3, 4, 5 at the bottom).

Control Buttons:

- **R:** Reset button (recessed).
- **W+:** Weekday setting.
- **H+:** Hour setting.
- **M+:** Minute setting.
- **C+:** Clear program.
- **Clock icon:** Used to set current time and day, and to exit programming mode.
- **MANUAL:** Manual override for ON/AUTO/OFF modes.
- **RES/RCL:** Reset/Recall program.

Terminal Blocks:

- **1, 2:** Power supply input (N, L).
- **3, 4, 5:** Output terminals for controlled circuit (Common, Normally Open, Normally Closed).

TECHNICAL SPECIFICATIONS

Parameter	Value
Model Number	EDIN305N
Voltage	230V~50Hz

Parameter	Value
Max. Current	16A
Max. Power	3600W
Number of Settings	7 (ON/OFF programs)
Mounting Type	DIN-Rail
Dimensions (L x W x H)	2.36 x 3.54 x 1.57 inches (60 x 90 x 40 mm)
Weight	0.12 kg (4.2 ounces)
Material	Plastic
Color	White
Batteries Required	No (internal battery for memory backup)

INSTALLATION

1. Mounting

The Perel EDIN305N is designed for DIN-rail mounting. Securely attach the timer to a standard 35mm DIN-rail within an electrical enclosure. Ensure sufficient space for wiring and ventilation.

2. Wiring

IMPORTANT: Ensure power is disconnected at the main circuit breaker before proceeding with wiring. Follow local electrical codes and regulations.
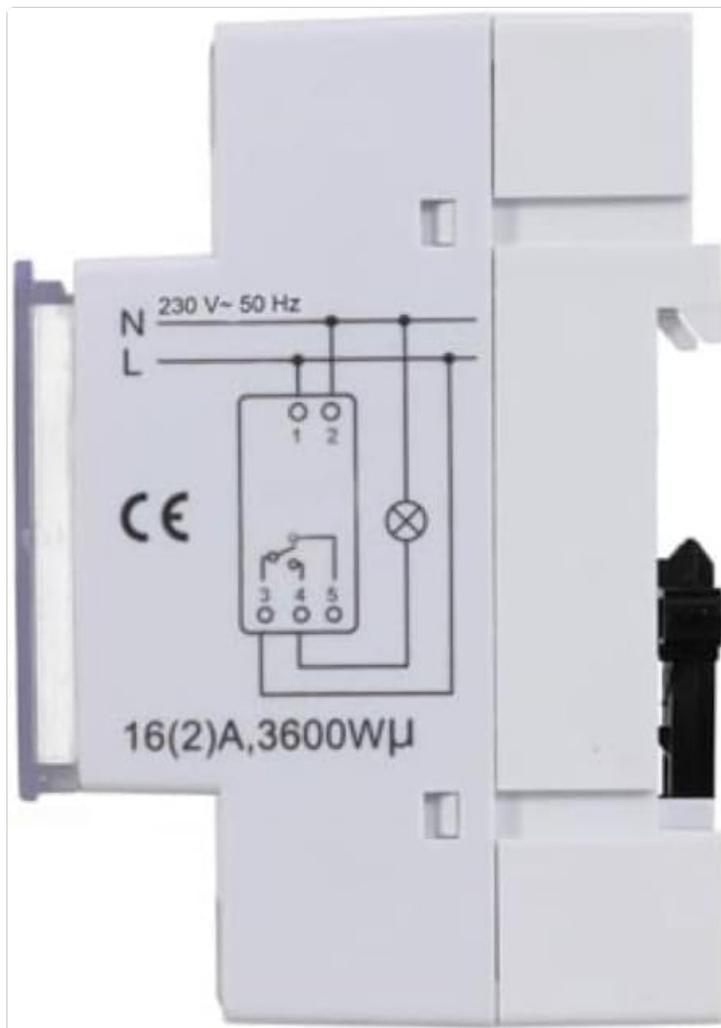
Figure 2: Side view of the Perel EDIN305N Digital Weekly Timer showing the electrical wiring diagram. It illustrates connections for Neutral (N), Live (L), and the output contacts (1, 2, 3, 4, 5) for controlling a load.

Refer to the wiring diagram (Figure 2) and the terminal block labels on the device:

- Connect the Neutral (N) wire of your 230V AC supply to terminal 1.

- Connect the Live (L) wire of your 230V AC supply to terminal 2.

- For the controlled circuit:

  - Terminal 3: Common contact for the relay output.

  - Terminal 4: Normally Open (NO) contact. The circuit connected here will be ON when the timer is active.

  - Terminal 5: Normally Closed (NC) contact. The circuit connected here will be OFF when the timer is active.

- Connect the load (e.g., light, appliance) between the Live (L) supply and either terminal 4 (for NO operation) or terminal 5 (for NC operation), with terminal 3 connected to the Live (L) supply. Alternatively, connect the load between terminal 4 or 5 and the Neutral (N) supply, with terminal 3 connected to the Live (L) supply. Consult a qualified electrician for specific load wiring configurations.

INITIAL SETUP AND OPERATION

1. Power On and Reset

After wiring and restoring power, the display will illuminate. If the display is blank or shows erratic characters, press the recessed **R** (Reset) button using a pointed non-metallic object (e.g., a pen tip). This will clear all settings and restore default values.

2. Setting Current Time and Day

1. Press and hold the **Clock icon** button.
2. While holding the **Clock icon** button, press **W+** to set the current day of the week (1=Monday, 7=Sunday).
3. While holding the **Clock icon** button, press **H+** to set the current hour (0-23).
4. While holding the **Clock icon** button, press **M+** to set the current minute (0-59).
5. Release the **Clock icon** button. The time and day are now set.

3. Programming ON/OFF Cycles

The timer supports up to 7 ON/OFF programs. Each program consists of an ON time and an OFF time.

1. Press the **Clock icon** button once to enter programming mode. The display will show "1 ON".
2. Press **W+** to select the day(s) for this program. You can choose a single day, a block of days (e.g., Mon-Fri), or all days.
3. Press **H+** to set the ON hour for program 1.
4. Press **M+** to set the ON minute for program 1.
5. Press the **Clock icon** button again. The display will show "1 OFF".
6. Repeat steps 2-4 to set the OFF day(s), hour, and minute for program 1.
7. To set additional programs (2-7), press the **Clock icon** button to cycle through "2 ON", "2 OFF", etc., and repeat the setting process.
8. After setting all desired programs, press the **MANUAL** button to exit programming mode and return to the current time display.

4. Manual Override

Press the **MANUAL** button repeatedly to cycle through the operating modes:

- **ON:** The output is continuously ON, overriding all programs.
- **AUTO:** The timer operates according to the programmed ON/OFF cycles.
- **OFF:** The output is continuously OFF, overriding all programs.

Ensure the timer is set to **AUTO** for programmed operation.

5. Clearing Programs

To clear a specific program:

1. Enter programming mode by pressing the **Clock icon** button until the desired program number (e.g., "3 ON") is displayed.
2. Press the **C+** button. This will clear both the ON and OFF times for that specific program.
3. Repeat for other programs as needed.
4. Press **MANUAL** to exit programming mode.

To clear all programs and reset the device, use the recessed **R** (Reset) button.

MAINTENANCE

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the transparent cover is closed to protect the display and buttons from dust and splashes.
- Regularly check electrical connections for tightness, especially in high-vibration environments.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank.	No power supply; internal battery depleted.	Check power connections (terminals 1 & 2). Ensure main power is ON. If power is present, press the **R** (Reset) button. The internal battery recharges when connected to power.
Timer not switching ON/OFF as programmed.	Incorrect program settings; timer in manual ON/OFF mode.	Verify program settings (time, day, ON/OFF). Ensure the timer is in **AUTO** mode by pressing the **MANUAL** button.
Connected appliance not receiving power.	Incorrect wiring; appliance fault; timer fault.	Check wiring according to Figure 2. Test the appliance directly. If wiring and appliance are fine, the timer may be faulty.
Buttons unresponsive or display erratic.	Software glitch; low internal battery.	Press the recessed **R** (Reset) button. Ensure the timer has been connected to power for at least 24 hours to fully charge the internal battery.

DISPOSAL

Do not dispose of this product with general household waste. This electronic device contains materials that can be recycled. Please dispose of it at a designated collection point for electrical and electronic equipment waste, in accordance with local regulations.

WARRANTY AND SUPPORT

Perel products are manufactured to high quality standards. For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact your local Perel distributor or retailer. Please have your model number (EDIN305N) and purchase details ready when contacting support.