

Perel E305DIN1

Perel E305DIN1 DIN Rail Week Timer Instruction Manual

Model: E305DIN1

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Perel E305DIN1 DIN Rail Week Timer. Please read this manual thoroughly before using the device to ensure proper function and safety. The Perel E305DIN1 is designed for precise daily and weekly control of electrical circuits.

2. FEATURES

The Perel E305DIN1 DIN Rail Week Timer offers a range of functionalities for efficient time management of electrical devices:

- **Daily and Weekly Programming:** Allows for flexible scheduling across days and weeks.
- **8 ON/OFF Program Locations:** Configure up to 8 distinct ON and OFF switching times.
- **LCD Display:** Clear display of time, day of the week, and current operating status.
- **NiMH Backup Battery:** Integrated battery provides up to 200 hours of autonomy after a full charge, preserving settings during power outages.
- **3-Way Manual Override:** Easily switch between ON, OFF, and AUTO modes manually.
- **Mounting Options:** Designed for DIN rail mounting or wall mounting using the included bracket.
- **Transparent Protective Cover:** Provides protection for the display and controls.

3. SETUP AND INSTALLATION

Warning: Installation should only be performed by a qualified electrician. Ensure the main power supply is disconnected before commencing installation.

3.1 Mounting

The E305DIN1 timer can be mounted in two ways:

1. **DIN Rail Mounting:** Snap the timer onto a standard 35mm DIN rail within an electrical enclosure.
2. **Wall Mounting:** Use the provided bracket to secure the timer to a wall. Ensure the mounting surface is stable and capable of supporting the device.

3.2 Electrical Connection

Refer to the wiring diagram provided with the device for specific connection points. General steps include:

1. Connect the main power supply (220-250VAC, 50Hz) to the designated input terminals.
2. Connect the load (device to be controlled) to the output terminals. Ensure the load's specifications do not exceed the timer's maximum output capacity (16A resistive, 8A inductive).
3. Double-check all connections for tightness and correctness before restoring power.



Image: Perel E305DIN1 DIN Rail Week Timer. This image shows the front view of the timer, highlighting its LCD display, control buttons, and transparent protective cover.

4. OPERATING INSTRUCTIONS

After installation and power-up, the timer's internal battery will charge. Allow sufficient time for the battery to charge for optimal backup functionality.

4.1 Setting Current Time and Day

1. Press the **CLOCK** button.
2. While holding **CLOCK**, press the **DAY** button to set the current day of the week.
3. While holding **CLOCK**, press the **HOUR** button to set the current hour.
4. While holding **CLOCK**, press the **MIN** button to set the current minute.

4.2 Programming ON/OFF Times

The timer allows for up to 8 ON/OFF program pairs.

1. Press the **PROG** button once to enter program mode. The display will show '1 ON'.
2. Use the **DAY**, **HOUR**, and **MIN** buttons to set the desired ON time for program 1.
3. Press **PROG** again. The display will show '1 OFF'.
4. Use the **DAY**, **HOUR**, and **MIN** buttons to set the desired OFF time for program 1.

5. Repeat steps 1-4 for programs 2 through 8.
6. Press the **CLOCK** button to exit program mode and return to normal operation.

4.3 Manual Override Function

The manual override function allows you to temporarily change the timer's output state without affecting programmed settings.

- Press the **MANUAL** button to cycle through the modes:
- **ON**: The output is continuously ON, overriding any programmed OFF times.
- **OFF**: The output is continuously OFF, overriding any programmed ON times.
- **AUTO**: The timer operates according to the programmed ON/OFF schedules.

5. MAINTENANCE

The Perel E305DIN1 timer requires minimal maintenance.

- **Cleaning**: Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Backup**: The internal NiMH battery is designed for long life. If the timer frequently loses its settings during power outages, the battery may need replacement by a qualified technician.
- **Environmental Conditions**: Ensure the timer operates within its specified temperature range (-10°C to 40°C) and avoid excessive humidity or direct sunlight.

6. TROUBLESHOOTING

If you encounter issues with your Perel E305DIN1 timer, refer to the following common problems and solutions:

- **Timer not turning ON/OFF as programmed:**
 - Check if the timer is in **AUTO** mode. If it's in ON or OFF manual override, it will ignore programs.
 - Verify that the programmed ON/OFF times are correctly set and correspond to the current day.
 - Ensure the current time and day are accurately set on the timer.
- **Display is blank or flickering:**
 - Check the main power supply to the timer.
 - If power is present, the internal backup battery might be completely discharged. Allow the timer to be powered for several hours to recharge the battery.
- **Timer loses settings after power outage:**
 - The internal NiMH backup battery may not be fully charged or may be at the end of its lifespan. Ensure the timer is continuously powered for at least 24 hours to fully charge the battery. If the issue persists, the battery may need replacement.
- **Time drift (timer becomes inaccurate over time):**
 - The timer has a specified accuracy of ± 1 minute per month. Minor adjustments may be necessary periodically. If the drift is significantly higher, contact support.

If these steps do not resolve the issue, please contact customer support.

7. SPECIFICATIONS

Below are the technical specifications for the Perel E305DIN1 DIN Rail Week Timer:

Power Supply	220 ~ 250VAC / 50Hz
Output (Resistive Load)	16A @ 230VAC, max. 3680W
Output (Inductive Load)	8A @ 230VAC (cos μ = 0.4)
Minimum Switching Interval	1 minute
Power Consumption	4.4W
Operating Temperature	-10°C to 40°C
Time Accuracy	\pm 1 minute per month
Backup Battery	NiMH, up to 200h autonomy
Mounting	DIN Rail or Wall Mount
Material	Plastic
Color	Transparent

8. WARRANTY AND SUPPORT

This Perel product is covered by a standard manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or the Perel customer service department.

Keep your purchase receipt as proof of purchase for warranty purposes.