

PERRY 1IO4091

Perry Astro-Lux-Time 1-Channel 2DIN Time Switch User Manual

Model: 1IO4091

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Perry Astro-Lux-Time 1-Channel 2DIN Time Switch. This device is designed for precise control of electrical loads based on astronomical calculations (sunrise/sunset), timed schedules, or light intensity (lux) detection.



Figure 1: Front view of the Perry Astro-Lux-Time 1-Channel 2DIN Time Switch. The display shows date, time, and operational status. Below the display are navigation buttons for menu access and settings adjustment.

Safety Information

Read all safety warnings and instructions carefully before installing or operating the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Installation and maintenance must be performed by qualified personnel only.
- Disconnect power before performing any work on the device or connected circuits.
- Ensure proper grounding.
- Do not expose the device to moisture or extreme temperatures.
- Verify that the supply voltage matches the device's specifications.

Product Overview

The Perry Astro-Lux-Time switch features a clear LCD display and intuitive button interface for programming. It is designed for DIN rail mounting within electrical enclosures.

Components:

- **LCD Display:** Shows current time, date, program status, and menu options.
- **MENU Button:** Accesses the main programming menu.
- **Arrow Buttons (Up/Down):** Navigate through menu options and adjust values.
- **OK Button:** Confirms selections and saves settings.
- **RESET Button:** Resets the device to factory defaults (use with caution).
- **Terminal Blocks:** Connections for power supply and load. Numbered 1-10.

SETUP

1. Installation:

1. **Mounting:** Securely mount the time switch onto a standard 35mm DIN rail within an electrical distribution board or enclosure.
2. **Wiring:**
 - Connect the main power supply (Live and Neutral) to the designated input terminals (refer to the wiring diagram on the device or packaging).
 - Connect the load to the output terminals. Ensure the load's current and voltage ratings do not exceed the switch's specifications.
 - If using the lux function, connect the external lux sensor to its dedicated terminals (if applicable to your model).
3. **Power On:** Restore power to the circuit. The display should illuminate.

2. Initial Configuration:

1. **Language Selection:** Upon first power-up, the device may prompt for language selection. Use arrow buttons to select and OK to confirm.
2. **Date and Time Setting:**
 - Navigate to the "Time/Date" menu.
 - Adjust year, month, day, hour, and minute using the arrow buttons. Confirm each setting with OK.
3. **Geographic Location (for Astro function):**
 - Access the "Astro" or "Location" menu.
 - Select your country and city from the pre-programmed list. If your exact location is not available, choose the nearest major city or manually enter latitude/longitude if the device supports it.
 - This setting is crucial for accurate sunrise/sunset calculations.

OPERATING INSTRUCTIONS

1. Programming Modes:

The device typically supports multiple programming modes:

- **Astro Mode:** Switches the load ON/OFF based on calculated sunrise and sunset times for your configured location.
- **Timed Mode:** Allows setting specific ON/OFF times for each day of the week or for specific days.
- **Lux Mode (if applicable):** Controls the load based on the ambient light level detected by an external sensor.

2. Setting Programs:

1. Press the MENU button to enter the main menu.
2. Navigate to "Programs" or "Schedules" using the arrow buttons and press OK.
3. Select the desired program number (e.g., P1, P2) or create a new one.
4. Choose the program type (Astro ON/OFF, Timed ON/OFF, Lux ON/OFF).
5. **For Timed Programs:** Set the desired ON time and OFF time. Select the days of the week for which the program should be active.
6. **For Astro Programs:** You may have options for offset (e.g., 15 minutes before sunset).
7. Confirm and save each program step with the OK button.

3. Manual Override:

The device usually has a manual override function to temporarily switch the load ON or OFF, irrespective of the programmed schedule.

- Locate the manual override button (often labeled with a hand icon or "MANU").
- Pressing it typically toggles the output state (e.g., from OFF to ON, or ON to OFF).
- The display will indicate the manual override status. The program will resume control at the next scheduled event.

MAINTENANCE

The Perry Astro-Lux-Time switch requires minimal maintenance.

- **Cleaning:** Gently wipe the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery:** The device contains an internal battery for retaining settings during power outages. This battery is typically long-lasting and not user-replaceable. If the display goes blank or settings are lost frequently during power interruptions, contact a qualified technician for service.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank.	No power supply.	Check circuit breaker and wiring connections. Ensure power is supplied to the correct terminals.
Load does not switch ON/OFF as programmed.	Incorrect program settings; Manual override active; Wiring error; Incorrect date/time/location.	Verify program times and days. Check if manual override is active. Inspect load wiring. Re-check date, time, and geographic location settings.
Time or settings are lost after power outage.	Internal battery depleted.	The internal battery may need replacement by a qualified technician.
Astro function is inaccurate.	Incorrect geographic location set.	Verify and correct the geographic location (country/city or latitude/longitude) in the settings.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	1IO4091
Brand	PERRY
Dimensions (L x W x H)	50 x 110 x 120 mm (5 x 11 x 12 cm)
Weight	180 grams
International Protection (IP) Rating	IP00 (Requires enclosure for protection)
Channels	1
Mounting	DIN Rail (2 DIN modules)
Functions	Astronomical, Timed, Lux (model dependent)

WARRANTY AND SUPPORT



This product is covered by the manufacturer's standard warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact Perry customer support.

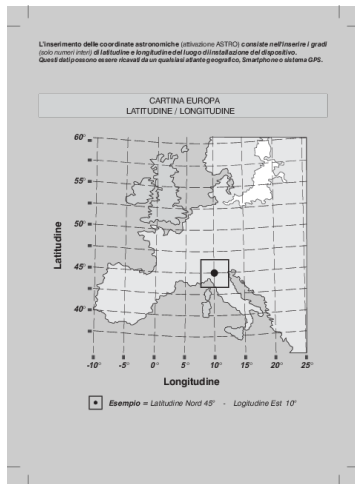
For technical assistance, troubleshooting beyond this manual, or spare parts inquiries, please contact your local distributor or Perry's official support channels. Always provide the model number (1IO4091) when seeking support.

Note: Information regarding spare parts availability is not provided in the product data.

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	<p>Perry Bookcase Assembly Instructions and Warranty Information</p> <p>Detailed assembly guide for the Perry Bookcase, including a comprehensive parts list, hardware list, step-by-step instructions, important safety warnings regarding tipover hazards, and the 6-month limited warranty details.</p>
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