

NUZEZCJG ESRD-TPD2

NUZEZCJG Double Channel Digital Weekly Time Switch ESRD-TPD2 User Manual

Model: ESRD-TPD2 | Brand: NUZEZCJG

1. INTRODUCTION

The NUZEZCJG ESRD-TPD2 is a double-channel digital weekly time switch designed for precise control of electrical circuits. This device allows users to program specific ON/OFF times for two independent channels over a weekly cycle, providing automated control for various applications such as lighting, heating, ventilation, or other electrical appliances. This manual provides essential information for the safe installation, operation, and maintenance of your ESRD-TPD2 time switch.

2. SAFETY INFORMATION

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

- **Professional Installation:** Installation and wiring must be performed by a qualified electrician in accordance with all local and national electrical codes.
- **Disconnect Power:** Always disconnect power to the circuit at the main breaker or fuse box before installing, servicing, or removing the device.
- **Voltage Compatibility:** Ensure the supply voltage matches the device's specifications (24-264V~ 50/60Hz).
- **Avoid Moisture:** Do not expose the device to water, rain, or excessive humidity.
- **Proper Load:** Do not exceed the maximum contact load rating of 16A 250V AC1 per channel.
- **Secure Connections:** Ensure all wire connections are tight and secure to prevent overheating or arcing.

3. PRODUCT OVERVIEW

The ESRD-TPD2 features a clear digital display and intuitive buttons for programming. It is designed for DIN rail mounting.

3.1. Device Components



Figure 1: Front View of ESRD-TPD2. This image displays the front of the time switch, highlighting the digital LCD screen which shows the current time, date, and channel status (e.g., C1 OFF). Below the screen are four control buttons: MENU, Up Arrow, Down Arrow, and OK, used for navigation and setting adjustments. The terminal labels A1, A2, C1 (18, 15, 16), and C2 (28, 25, 26) are visible at the top and bottom.



Figure 2: Angled View of ESRD-TPD2. This image provides an angled perspective of the time switch, revealing its compact DIN rail mountable form factor. The side of the device shows additional technical specifications and certifications. The screw terminals for power input (A1, A2) and the two independent output channels (C1 and C2) are clearly visible, along with their respective common, normally open, and normally closed contacts.

3.2. Display and Buttons

- **LCD Display:** Shows current time, day of the week, channel status (C1, C2), and programming menus.
- **MENU Button:** Enters and exits programming menus.
- **Up Arrow Button:** Navigates up or increases values in menus.
- **Down Arrow Button:** Navigates down or decreases values in menus.
- **OK Button:** Confirms selections and saves settings.

4. SETUP

4.1. Installation and Wiring

The ESRD-TPD2 is designed for DIN rail mounting. Ensure power is disconnected before proceeding.

1. Mount the time switch securely onto a standard DIN rail.
2. **Power Supply (A1, A2):** Connect the main power supply (24-264V~ 50/60Hz) to terminals A1 and A2.
3. **Channel 1 (C1) Wiring:**
 - Connect the common wire for Channel 1 to terminal 18.
 - For Normally Open (NO) operation, connect the load to terminal 16.
 - For Normally Closed (NC) operation, connect the load to terminal 15.
4. **Channel 2 (C2) Wiring:**
 - Connect the common wire for Channel 2 to terminal 28.
 - For Normally Open (NO) operation, connect the load to terminal 26.
 - For Normally Closed (NC) operation, connect the load to terminal 25.
5. Double-check all connections for tightness and correctness.

4.2. Initial Power-up and Basic Settings

After wiring, restore power to the device. The display should illuminate.

1. **Set Current Time and Date:** Press the MENU button to enter the main menu.
2. Navigate using the Up/Down arrow buttons to find the 'Time' or 'Date' setting.
3. Press OK to select, then use Up/Down to adjust values (year, month, day, hour, minute).
4. Press OK to confirm each setting.
5. Press MENU repeatedly to exit the menu and return to the main display.

5. OPERATING INSTRUCTIONS

5.1. Programming Weekly Schedules

The ESRD-TPD2 allows for multiple ON/OFF programs for each channel over a 7-day week.

1. Press the MENU button.
2. Navigate to 'Program' or 'P' using the Up/Down arrows and press OK.
3. Select the desired channel (C1 or C2) to program and press OK.
4. Choose a program number (e.g., 1 ON, 1 OFF) and press OK.
5. Set the desired day(s) of the week for this program. You can select individual days, weekdays, weekends, or all days. Press OK.
6. Set the ON time (hour and minute) for the program and press OK.
7. Set the OFF time (hour and minute) for the program and press OK.
8. Repeat steps 4-7 for additional ON/OFF programs for the same channel or switch to the other channel.
9. Press MENU repeatedly to save and exit the programming mode.

5.2. Manual Override

To temporarily override the programmed schedule for a channel:

- From the main display, press the Up or Down arrow button. This typically cycles through manual modes (e.g., ON, OFF, AUTO) for the active channel.
- Select the desired manual state (e.g., permanently ON, permanently OFF) for the channel. The display will indicate the current manual status.
- To return to automatic operation, cycle through the manual modes until 'AUTO' or the scheduled state is displayed.

6. MAINTENANCE

The ESRD-TPD2 is designed for minimal maintenance.

- **Cleaning:** Clean the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or liquids.
- **Internal Battery:** The device contains an internal battery to retain programmed settings during power outages. This battery is not user-replaceable and typically has a long lifespan. If the display is blank or settings are lost frequently after power interruptions, the internal battery may need professional servicing.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank	No power supply; Internal battery depleted (after long storage)	Check power connections to A1/A2. Ensure power is restored. If recently installed, allow time for internal battery to charge.
Time/Date is incorrect	Not set correctly; Power interruption (if internal battery is weak)	Re-set the current time and date as per Section 4.2.
Channels not switching as programmed	Incorrect programming; Manual override active; Wiring error	Verify program settings (ON/OFF times, days). Check if manual override is engaged (return to AUTO mode). Inspect wiring for C1/C2.
Device does not respond to button presses	Temporary software glitch	Disconnect power for a few minutes, then restore. If problem persists, contact support.

8. SPECIFICATIONS

- **Model:** ESRD-TPD2
- **Brand:** NUZEZCJG
- **Type:** Double Channel Digital Weekly Time Switch
- **Power Supply:** 24-264V~ 50/60Hz
- **Contact Load:** 16A 250V AC1 (per channel)
- **Relay Theory:** Time Relay
- **Item Weight:** Approximately 50 Grams
- **Mounting:** DIN Rail

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your seller directly. For technical support or further assistance, please reach out to the NUZEZCJG customer service department or your authorized distributor.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question