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› [deleyCON](#) /

› [deleyCON MK2639 Digital Weekly Timer for Control Panels - User Manual](#)

deleyCON MK2639

deleyCON MK2639 Digital Weekly Timer for Control Panels - User Manual

Model: MK2639 | Brand: deleyCON

1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, and operation of your deleyCON MK2639 Digital Weekly Timer. This device is designed for precise control of electrical appliances by switching them ON and OFF according to programmed schedules. It is intended for installation in electrical control panels.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by a qualified electrician in accordance with all local and national electrical codes.

- Always disconnect power before installing or servicing the timer.
- Ensure the timer is installed in a dry, indoor environment.
- Do not exceed the maximum load capacity of 3600W (16A).
- Verify all connections are secure and correct before restoring power.

3. PRODUCT FEATURES

- Digital timer with clear LCD display.
- Designed for installation in electrical control panels.
- 10 programmable ON/OFF switching programs.
- Minimum switching interval of 1 minute.
- 16 different weekday combination options for flexible scheduling.
- Selectable 12 or 24-hour display format.
- Manual ON/OFF override function.

- Adjustable Daylight Saving Time (DST) feature.
- IP20 protection class, suitable for indoor use.
- Integrated NiMH 1.2V backup battery providing over 100 hours of power reserve for settings retention during power outages.

4. PACKAGE CONTENTS

- 1 x deleyCON MK2639 Digital Weekly Timer with LCD Display
- 1 x User Manual

5. PRODUCT OVERVIEW



Figure 1: Front View of the Digital Timer

This image displays the front of the deleyCON MK2639 timer, featuring the LCD screen, and the control buttons labeled R, W+, H+, M+, C+, MANUAL, and RES/RCL. The ON/OFF indicator is also visible.

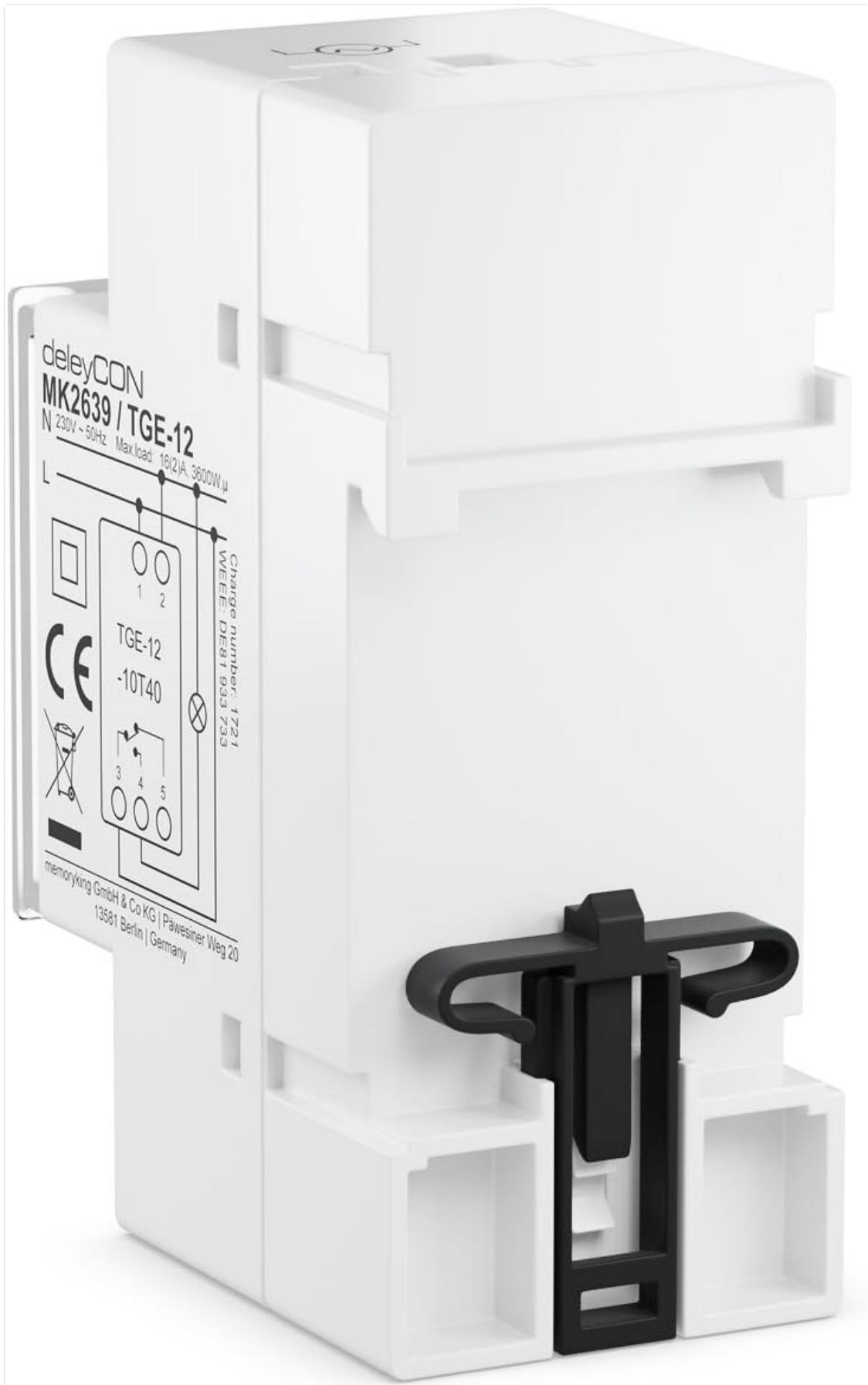


Figure 2: Side and Back View

This image shows the side and back of the timer, highlighting the model number (MK2639 / TGE-12), input voltage (230V~50Hz), maximum load (16(2)A, 3600W), and the DIN rail mounting clip.

Control Buttons:

- **R (Reset):** Resets the timer to factory defaults.

- **W+ (Week+)**: Adjusts the day of the week or selects weekday combinations during programming.
- **H+ (Hour+)**: Adjusts the hour.
- **M+ (Minute+)**: Adjusts the minute.
- **C+ (Clock+)**: Used in conjunction with W+, H+, M+ to set the current time.
- **MANUAL**: Toggles between ON, OFF, and AUTO modes.
- **RES/RCL (Reset/Recall)**: Used to clear or recall program settings.

6. INSTALLATION

The deleyCON MK2639 Digital Weekly Timer is designed for DIN rail mounting within an electrical control panel.

6.1 Mounting on DIN Rail

1. Ensure all power to the control panel is disconnected at the main breaker.
2. Locate an available space on the DIN rail.
3. Attach the timer to the DIN rail by hooking the top edge onto the rail and then pressing the bottom edge until the clip engages.

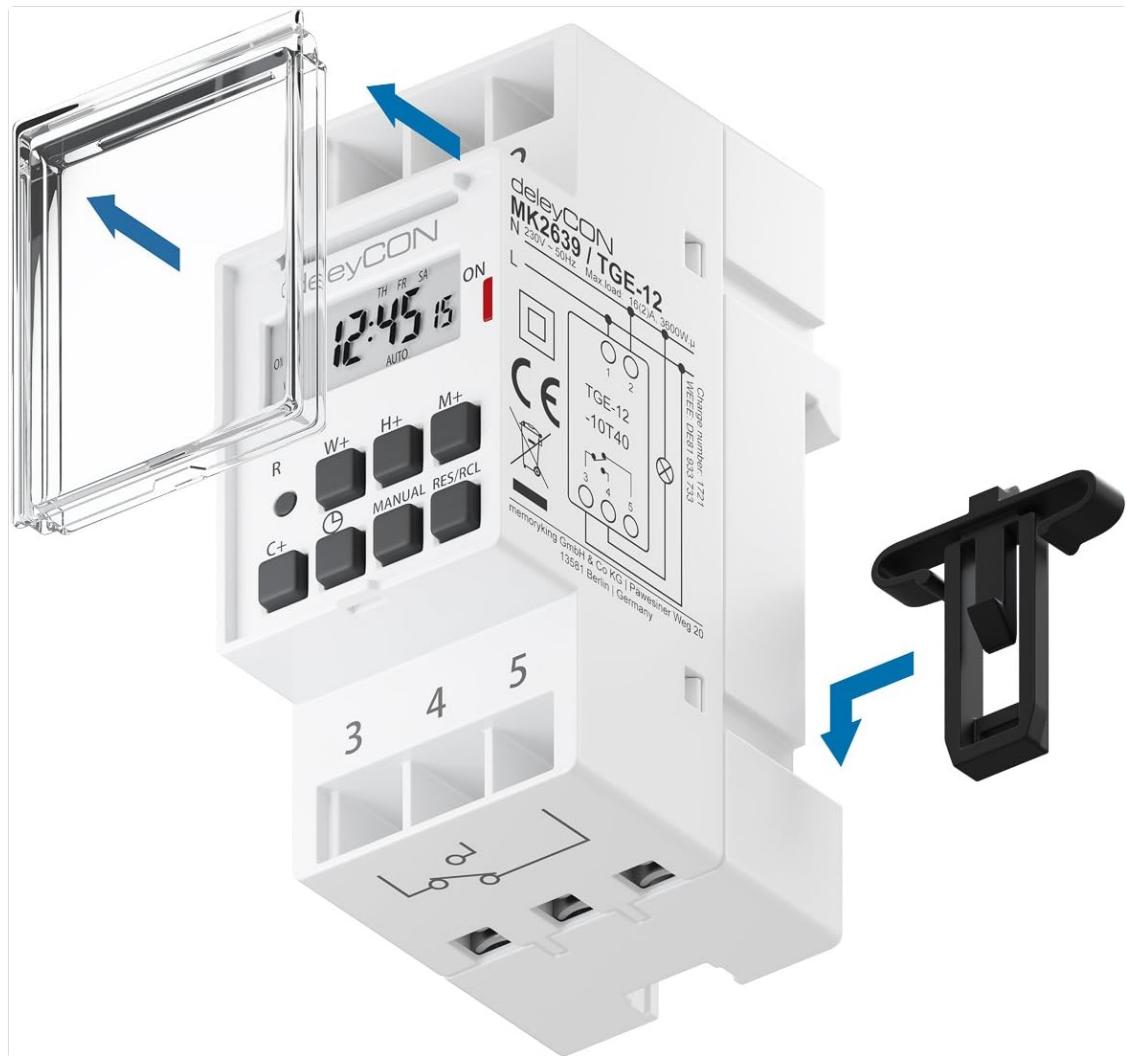


Figure 3: DIN Rail Mounting Mechanism

This image illustrates the removable clear front cover and the spring-loaded clip at the bottom of the timer, which secures it to a DIN rail.



Figure 4: Timer Installed on DIN Rail

The timer is shown securely mounted on a standard DIN rail, ready for wiring connections.

6.2 Wiring Connections

Refer to the wiring diagram below for correct electrical connections. All wiring must comply with local electrical codes.



Figure 5: Wiring Diagram

This diagram shows the terminal layout: L (Live Input), N (Neutral Input), and output terminals 1, 2, 3, 4, 5 for connecting the load. Terminals 1 and 2 are typically for the normally open contact, while 3, 4, 5 represent common, normally closed, and normally open contacts respectively for the internal relay.

- Connect the Live (L) wire from your power supply to the terminal marked 'L'.
- Connect the Neutral (N) wire from your power supply to the terminal marked 'N'.
- For the load connection, use terminals 3, 4, and 5. Terminal 3 is the common contact. Terminal 4 is normally closed (NC) and Terminal 5 is normally open (NO). Connect your appliance's live wire to Terminal 5 (for switching ON) and the neutral to the neutral supply.
- Ensure all terminal screws are tightened securely.

7. INITIAL SETUP

7.1 Resetting the Timer

Upon first use or after a prolonged power outage, it is recommended to reset the timer. Press the **R** button with a pointed object (e.g., a pen tip) to clear all settings and reset the display.

7.2 Setting Current Time and Day

1. Press and hold the **C+** button.
2. While holding **C+**, press **W+** to set the current day of the week (MO, TU, WE, TH, FR, SA, SU).
3. While holding **C+**, press **H+** to set the current hour.
4. While holding **C+**, press **M+** to set the current minute.
5. Release **C+**. The time is now set.

7.3 12/24 Hour Format

To switch between 12-hour and 24-hour display, press the **C+** and **H+** buttons simultaneously.

7.4 Daylight Saving Time (DST)

To activate or deactivate Daylight Saving Time, press the **C+** and **M+** buttons simultaneously. The display will show 'SUMMER' or 'WINTER' accordingly.

8. OPERATING INSTRUCTIONS (PROGRAMMING)

The timer allows for up to 10 ON/OFF programs with various weekday combinations.

8.1 Setting ON/OFF Programs

1. Press the **PROG** button (often labeled as 'P' or 'PROG' on similar models, or use **RES/RCL** if 'PROG' is not present, referring to Figure 1). The display will show '1 ON'.
2. Press **W+** to select the desired day(s) of the week for this program. There are 16 different combinations (e.g., MO, TU, WE, TH, FR, SA, SU; MO-FR; SA-SU; MO-SA; MO,WE,FR; TU,TH,SA; MO-WE; TH-SA; MO-FR,SA; MO-SU).
3. Press **H+** to set the ON hour.
4. Press **M+** to set the ON minute.
5. Press **PROG** again. The display will show '1 OFF'.
6. Repeat steps 2-4 to set the OFF time for program 1.
7. Continue pressing **PROG** to cycle through programs 2 ON, 2 OFF, up to 10 ON, 10 OFF.
8. After setting all desired programs, press the **C+** button to return to the current time display.

8.2 Manual Override

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

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

To return to automatic operation, press **MANUAL** until 'AUTO' is displayed.

9. MAINTENANCE

9.1 Cleaning

To clean the timer, wipe it with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.

9.2 Backup Battery

The timer includes an internal NiMH 1.2V rechargeable battery to maintain time and program settings during power outages. This battery is designed for long-term use and typically does not require replacement. If the display is blank or settings are lost frequently after power interruptions, the battery may need professional servicing.

10. TROUBLESHOOTING

- **Display is blank:**

Check power supply to the timer. Ensure the main power is ON. If power is present and the display remains blank, the internal backup battery might be fully discharged or faulty. Allow the timer to charge for several hours with power connected. If the issue persists, contact support.

- **Programs are not running:**

Ensure the timer is in 'AUTO' mode (check the MANUAL button setting). Verify that the current time and day are set correctly. Double-check your program settings for accuracy (ON/OFF times and selected weekdays).

- **Time is incorrect:**

Reset the timer using the 'R' button and then re-set the current time and day. Check if Daylight Saving Time (DST) is incorrectly activated/deactivated.

- **Appliance does not switch ON/OFF:**

Verify the wiring connections are correct and secure (refer to Section 6.2). Ensure the appliance itself is functional and properly connected. Check the timer's operating mode (AUTO, ON, OFF).

11. SPECIFICATIONS

Feature	Specification
Brand	deleyCON
Model Number	MK2639
Input Voltage	230V AC, 50Hz
Max. Load Capacity	16(2)A, 3600W
Minimum Time Setting	1 minute
Programs	10 ON/OFF programs
Weekday Combinations	16 options
Time Accuracy	+/- 1 minute deviation per month
Backup Battery	NiMH 1.2V, >100 hours reserve
Protection Class	IP20

Operating Environment	Indoor use only
Color	White
Dimensions (Package)	9.3 x 6.7 x 4.6 cm
Item Weight	102 g

12. SUPPORT & WARRANTY

For technical support or inquiries, please contact deleyCON customer service. Information regarding specific warranty terms may be available on the product packaging or the official deleyCON website.

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