FABULETTA TM919TK

FABULETTA TM919TK Astronomical Timer Switch User Manual

Model: TM919TK

1. Introduction

The FABULETTA TM919TK Astronomical Timer Switch is an advanced digital electronic time switch designed for automatic control of electrical loads based on astronomical events such as sunrise and sunset. It features automatic adjustment for geographical location, flexible time zone configuration, and a built-in perpetual calendar, providing precise and reliable operation without frequent manual adjustments.

2. Product Features

- **Intelligent Sunrise Sunset Control:** Automatically adjusts to local sunrise and sunset times based on geographical location, eliminating the need for seasonal manual tweaks.
- **Adaptable Latitude and Longitude Settings:** Supports latitude settings from 0 to 70 degrees North or South and longitude from -180 to 180 degrees for global use.
- **User-Friendly Time Zone Setting:** Flexible configuration allows accurate local time setting within a range of +12 to -12 hours.
- **Built-in Perpetual Calendar:** Includes a calendar valid until 2042, ensuring long-lasting performance without frequent updates.
- **Customizable Programming Options:** Supports up to 8 different program schedules based on astronomical timings, with easy switching between 12-hour and 24-hour formats.

3. Safety Information

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Installation should only be performed by a qualified electrician.

- Ensure power is disconnected at the main circuit breaker before installation or maintenance.
- Do not exceed the maximum load rating of 16A / 3200W.
- Do not expose the device to moisture or extreme temperatures.
- Verify all connections are secure and correct before restoring power.

4. Package Contents

- 1 x FABULETTA TM919TK Astronomical Timer Switch
- 1 x User Manual (this document)

5. Product Overview

Familiarize yourself with the components of the TM919TK timer switch.



Image: Front and side views of the TM919TK Astronomical Timer Switch, showing the display, buttons, and wiring terminals.



Image: Side view of the TM919TK timer switch with the clear cover open, revealing the display and control buttons.



Image: Bottom view of the TM919TK timer switch showing the wiring terminals labeled N, L, and LOAD.

6. Installation and Setup

The TM919TK timer switch is designed for DIN rail mounting within an electrical panel. Ensure power is off before proceeding.

6.1 Mounting

1. Locate an available space on a standard 35mm DIN rail within your electrical enclosure.
2. Clip the timer switch onto the DIN rail, ensuring it is securely fastened.

6.2 Wiring

Refer to the wiring diagram below and the labels on the device. Always ensure power is disconnected before making any electrical connections.



Image: Hands installing the TM919TK timer switch into an electrical panel, demonstrating typical installation environment.

- Connect the Neutral (N) wire from your power supply to the 'N' terminal on the timer switch.
- Connect the Live (L) wire from your power supply to the 'L' terminal on the timer switch.
- Connect the Live wire to your load (e.g., light fixture) to the 'LOAD' terminal on the timer switch. The

other side of your load should be connected to the Neutral wire.

- Ensure all terminal screws are tightened securely.

6.3 Initial Power-Up

After wiring, restore power to the circuit. The display should illuminate. If the display does not light up, check your wiring and power supply.

7. Initial Configuration

Upon first power-up or after a reset, you will need to configure the basic settings.

7.1 Setting Current Time and Date

1. Press the **CLOCK** button (often labeled with a clock icon) and hold for 3 seconds to enter time setting mode.
2. Use the **HOUR**, **MINUTE**, and **DAY** buttons to adjust the current time and day of the week.
3. Press **CLOCK** again to save and exit.

7.2 Setting Time Zone

1. Press the **TIME ZONE** button (or similar, refer to device specific labels) to cycle through available time zone offsets (+12 to -12).
2. Select your local time zone.

7.3 Setting Latitude and Longitude

These settings are crucial for accurate astronomical calculations.

1. Press and hold the **LAT/LONG** button (or similar) for 3 seconds to enter setting mode.
2. Use the **UP/DOWN** arrows to adjust the Latitude (0-70 degrees North/South).
3. Press **LAT/LONG** again to switch to Longitude setting.
4. Use the **UP/DOWN** arrows to adjust the Longitude (-180 to 180 degrees).
5. Press **LAT/LONG** once more to save and exit.

8. Operating Instructions

8.1 Programming ON/OFF Times (Astronomical Mode)

The TM919TK allows for up to 8 ON/OFF programs. These can be set relative to sunrise/sunset or at fixed times.

1. Press the **PROG** button to enter programming mode. The display will show '1 ON'.
2. Use the **HOUR**, **MINUTE**, and **DAY** buttons to set the desired ON time. To set an astronomical time, press the **ASTRO** button (or similar) to cycle through options like 'SUNRISE', 'SUNSET', 'SUNRISE + X min', 'SUNSET - X min', etc.
3. Press **PROG** again to set the '1 OFF' time, repeating the steps above.
4. Continue pressing **PROG** to set subsequent programs (2 ON, 2 OFF, etc.) up to 8 programs.
5. After setting all desired programs, press the **CLOCK** button to exit programming mode and return to normal operation.

8.2 Manual Override

To temporarily override the current program state:

- Press the **MANUAL** button (or similar). The output will switch from ON to OFF or OFF to ON.
- The timer will maintain this manual state until the next programmed event, at which point it will revert to automatic operation.

8.3 12/24 Hour Format Conversion

To switch between 12-hour (AM/PM) and 24-hour formats:

- While in normal time display mode, press the **CLOCK** button and the **HOUR** button simultaneously.

8.4 Reset Function

To clear all settings and return the timer to factory defaults:

- Locate the **RESET** button (often a small recessed button).
- Use a pointed object (e.g., a pen tip) to press the **RESET** button. The display will clear, and you will need to reconfigure all settings.

9. Maintenance

The TM919TK timer switch requires minimal maintenance.

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Do not use abrasive cleaners or solvents.
- Ensure the clear protective cover over the display and buttons is kept closed to prevent dust ingress.
- The internal battery for the perpetual calendar is designed for long-term use and typically does not require replacement during the product's lifespan.

10. Troubleshooting

Problem	Possible Cause	Solution
Display is blank	No power supply; Incorrect wiring	Check power connections and circuit breaker. Verify wiring according to Section 6.2.
Timer does not switch ON/OFF at programmed times	Incorrect program settings; Manual override active; Incorrect time/date/latitude/longitude settings	Review program settings (Section 8.1). Check if manual override is active (Section 8.2). Verify current time, date, time zone, latitude, and longitude (Section 7).
Astronomical times are inaccurate	Incorrect latitude/longitude settings; Incorrect time zone	Double-check latitude, longitude, and time zone settings for your exact location (Section 7.2, 7.3).
Device is unresponsive	Temporary software glitch	Perform a full reset (Section 8.4) and reconfigure settings.

11. Specifications

- **Product Name:** Timer Switch
- **Model:** TM919TK
- **Material:** Plastic
- **Color:** White (As Picture Show)
- **Dimensions:** 90x36x68mm (approx. 3.54 x 1.42 x 2.68 inches)
- **Item Weight:** 125 Grams (approx. 4.4 ounces)
- **Voltage:** AC85-265V (as per product image)
- **Max Load:** 16A / 3200W
- **Latitude Range:** 0 to 70 degrees North or South
- **Longitude Range:** -180 to 180 degrees
- **Time Zone:** +12 to -12 hours
- **Calendar Validity:** 2017 to 2042
- **Programming:** 8 ON/OFF programs

12. Warranty Information

FABULETTA products are manufactured to high-quality standards. This product is covered by a limited warranty against defects in materials and workmanship for a period specified by your retailer or local regulations from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, misuse, unauthorized modification, or natural disasters.

13. Customer Support

If you have any questions, require technical assistance, or encounter issues not covered in this manual, please contact FABULETTA customer support through the retailer where the product was purchased or visit the official FABULETTA website for contact information.

For online resources and frequently asked questions, please refer to the product support page on the FABULETTA website.

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