

Baomain KG316T-II-220V

Baomain Timer Switch KG316T-II User Manual

Model: KG316T-II-220V

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Baomain KG316T-II 220V DIN-Rail LCD Micro-Computer Electric Power Time Controller. This device is designed to automatically switch electrical equipment on and off according to a fixed time schedule. It is widely used to control various electrical appliances such as lamps, water heaters, sprayers, preheaters, agricultural facilities, broadcasting equipment, and other home appliances.

GENERAL INFORMATION

The KG316T-II Panel-Mount Digital Timer series can be operated from 24V to 220V DC/AC. Output format can be voltage-free or voltage-controlled. Batteries are 1.2VDC / 40mA rechargeable, providing power during power outages. Note: New battery life is 1000 days. If the display is ON but the red light is ON, the battery is charging and should be allowed time to charge. If the display is OFF, the battery is dead and needs replacement. This Digital Timer is accurate to the minute, designed with either 17 or 18 ON/OFF events per day.



Diagram illustrating the concept of programmed ON/OFF events over time.
The timer supports 15 daily programs, allowing users to choose the required days in a week for operation.

Daily Program Options

No.	Days
1.	MO TU WE TH FR SA SU

No.	Days
2.	MO TU WE TH FR SA
3.	MO TU WE TH FR
4.	MO TU WE
5.	MO WE FR
6.	MO TU TH SA
7.	MO TU WE TH FR SA SU
8.	MO
9.	TU
10.	WE
11.	TH
12.	FR
13.	SA
14.	SU
15.	SA SU

BASIC FEATURES

- Panel mounted design.
- Advanced pre-setting one week before operation.
- Digital electronic timer switch with daily & weekly programs.
- Repeat programs with 17 ON/OFF settings and manual override.
- Lithium battery power reserve ensures operation during electric supply cut off.

TECHNICAL DATA

Voltage Rating: 12VDC/AC, 24VDC/AC, 48VDC/AC, 110VAC, 220VAC

Error Correction: 1 second/day (at 25°C)

ON/OFF Operation: 17 or 18 programs

Power Consumption: ≤2W

Service Life: Mechanical 10⁷, Electrical 10⁵

Display: LCD

Minimum Interval: 1 minute

Weight: Approximately 127g

Power Reserve: 60 days

Ambient Temperature: -10°C to +40°C

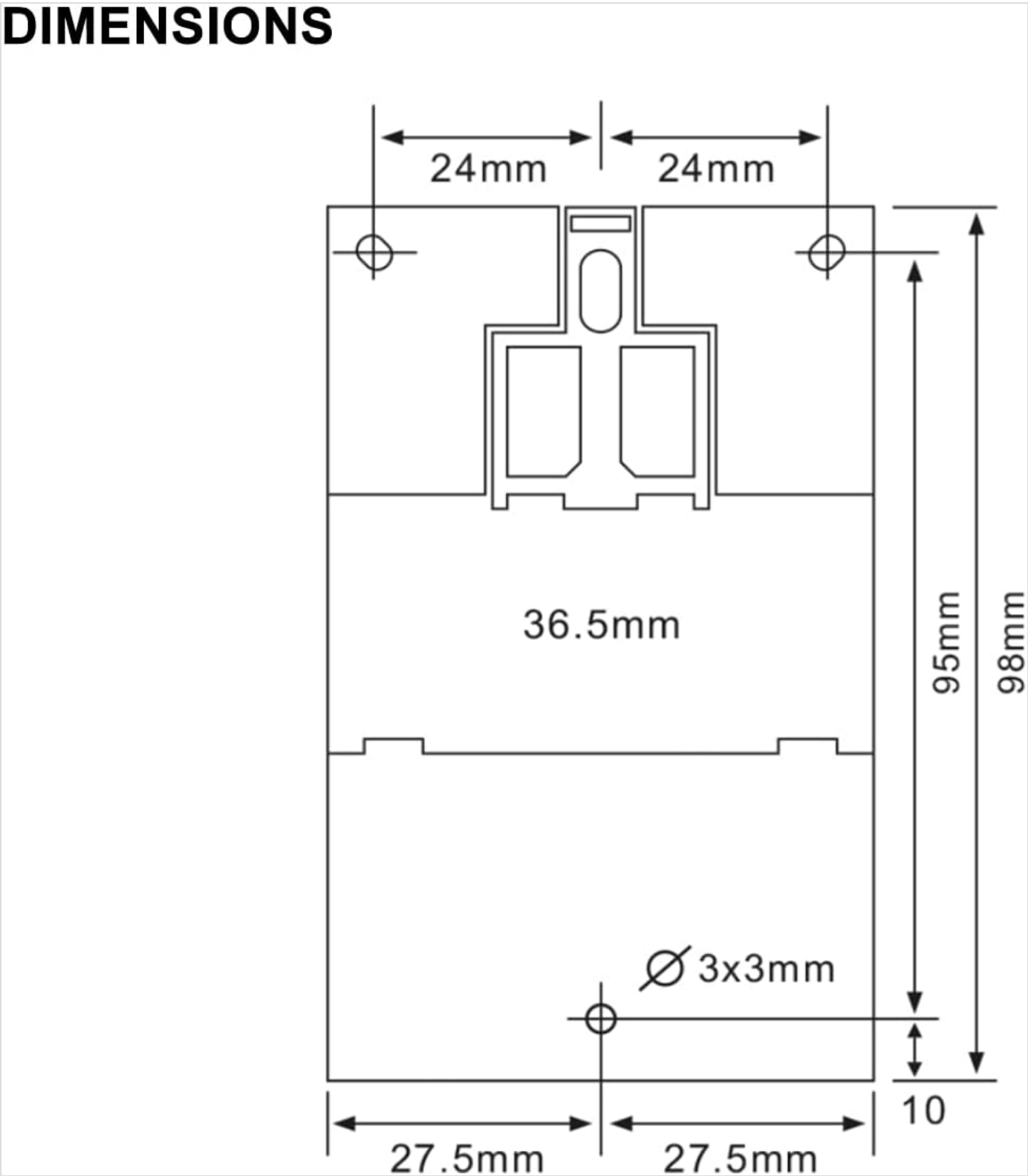
Ambient Humidity: 35-85%RH

Battery Life: 3 years (Lithium battery)

SETUP AND INSTALLATION

The Baomain KG316T-II timer switch is designed for DIN-rail mounting. Ensure all power is disconnected before installation.

Physical Dimensions

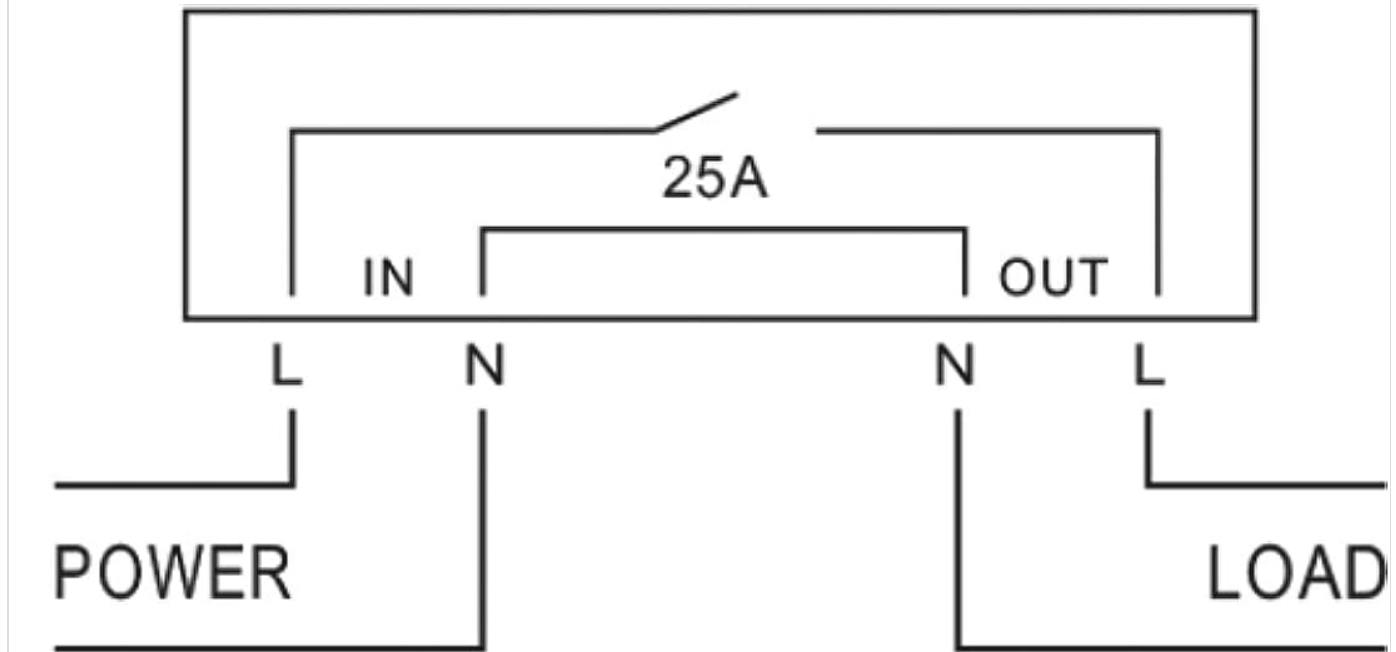


Detailed dimensions of the timer switch, showing measurements in millimeters for mounting and overall size.
Total Size (Approx): 9.8 x 5.5 x 4.2cm / 3.9" x 2.1" x 1.6" (L*W*H).

Wiring Connection

WARNING: SHOCK OR FIRE HAZARD. Wiring should be performed by qualified personnel. Disconnect power before wiring.

CONNECTION DIAGRAM



Connection diagram showing power input (L, N) and load output (N, L) terminals for the timer switch. The internal switch is rated for 25A. Connect the incoming power supply to the "POWER" terminals (L and N). Connect the device to be controlled to the "LOAD" terminals (N and L). Ensure correct polarity and secure all connections.

For 240V applications in the US, connect the two line side wires to the two left side terminals (L and N for input) and the load side to the two right side terminals (N and L for output). Both neutral and ground wires typically bypass the timer.

OPERATING INSTRUCTIONS

Programming the Timer

The timer features a clear LCD display and several buttons for programming:

- **C:** Cancel/Reset button.
- **D+:** Adjust day of the week.
- **H+:** Adjust hour.
- **M+:** Adjust minute.
- **Clock icon:** Set current time.
- **P:** Program setting button.
- **Manual:** Toggle ON, AUTO, or OFF.
- **Red button:** Reset timer before programming.

A. Adjusting Clock

Press and hold the **Clock icon** button, then press **D+**, **H+**, and **M+** keys respectively to adjust the current day, hour, and minute. The timer operates in 24-hour format (0:00-23:59).

B. Setting Programs (ON/OFF Operations)

1. Press the **P** key. The LCD screen will show "1st ON".
2. Press **D+** key to select any of the 15 combinations of daily programs for your application. Repeatedly pressing **D+** will cycle through the available day combinations.
3. Press **H+** and **M+** respectively to set the desired hour and minute for the "1st ON" event.
4. After finishing setting the "1st ON" event, press the **P** key again. The screen will now show "1st OFF".
5. Press **D+** key to select any of the 15 combinations of daily programs for your application. Repeatedly pressing **D+** will cycle through the available day combinations.
6. Press **H+** and **M+** respectively to set the desired hour and minute for the "1st OFF" event.
7. Repeat steps 3 and 4 to set subsequent ON/OFF programs (up to 17 or 18 pairs).
8. After completing all desired program settings, press the **Clock icon** button to exit programming mode and return to the current time display. The timer will now start to execute the programs.

Important: Day-combination chosen in each of the ON/OFF program periods must be consistent.

Manual Override

Press the **Manual** button to cycle through the output states: ON, AUTO, or OFF. In AUTO mode, the timer follows the programmed schedule. Manual ON/OFF will override the program until the next programmed event.

MAINTENANCE

The Baomain KG316T-II timer switch requires minimal maintenance. Keep the device clean and free from dust and moisture.

- **Cleaning:** Use a soft, dry cloth to clean the exterior. Do not use abrasive cleaners or solvents.
- **Battery:** The built-in lithium battery has an average life of 3 years. If the display is off or the red light is constantly on, the battery may need charging or replacement. Allow time for the battery to charge if the red light is on.
- **Storage:** If storing the device for an extended period, ensure it is kept in a dry, cool environment within the specified ambient temperature range (-10°C to +40°C).

TROUBLESHOOTING

Troubleshooting Guide		
Problem	Possible Cause	Solution
Display is off.	No power supply or dead internal battery.	Check power connections. If power is present, the internal battery may be depleted; allow time for it to charge or consider replacement.
Timer not switching at programmed times.	Incorrect programming, timer in manual override mode, or incorrect current time setting.	Verify programmed ON/OFF times. Ensure the timer is set to "AUTO" mode using the Manual button. Check and correct the current time.
Red light is ON but display is also ON.	Internal battery is charging.	This is normal operation. Allow the battery to charge.
Timer is not responding to button presses.	Unit may be frozen or require a reset.	Press the red reset button to clear all settings and restart. Reprogram the timer as needed.

Problem	Possible Cause	Solution
Output not switching despite correct programming.	Wiring issue or faulty unit.	Verify all wiring connections are secure and correct. If problem persists, the unit may be faulty and require replacement.

SPECIFICATIONS

Feature	Detail
Model Number	KG316T-II-220V
Working Rate	AC 220V, 25A, 50/60Hz
Built-in Battery	1.2VDC / 40mA (Lithium Metal)
Error Correction	1 Sec / Day (25°C)
ON / OFF Operations	17 or 18 programs
Display	LCD
Total Size (Approx)	9.8 x 5.5 x 4.2cm / 3.9" x 2.1" x 1.6" (L*W*H)
Net Weight	127g (4.5 ounces)
Material	Plastic
Mounting Type	DIN Rail
Minimum Interval	1 minute
Power Reserve	60 days (battery life 3 years)
Ambient Temperature	-10°C to +40°C
Ambient Humidity	35-85%RH

WARRANTY AND SUPPORT

For warranty information and technical support, please contact Baomain directly through their official channels. Refer to the product packaging or the Baomain store on Amazon for contact details.
Visit the [Baomain Store on Amazon](#) for more products and information.

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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.

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