

Walfront AHC15A

Walfront AHC15A Digital LCD Programmable Timer Switch Relay User Manual

Model: AHC15A

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Walfront AHC15A Digital LCD Programmable Timer Switch Relay. This device is designed to automatically control electrical equipment by setting specific ON/OFF times daily or weekly. It features a built-in rechargeable battery and an industrial-grade chip for high precision and strong anti-interference capabilities.

SAFETY INFORMATION

- Ensure power is disconnected before installation or maintenance.
- Installation should be performed by a qualified electrician in accordance with local electrical codes.
- Do not exceed the specified load capacity of the device.
- Keep the device away from moisture, direct sunlight, and extreme temperatures.

PRODUCT OVERVIEW

The Walfront AHC15A timer switch features an LCD display, control buttons, and terminals for electrical connections. It is designed for DIN rail mounting.



Image 1: Front view of the Walfront AHC15A Digital LCD Programmable Timer Switch, showing the LCD display, control buttons (P, D+, H+, M+, RESET, MANUAL C/R), and the protective cover.

SETUP AND INSTALLATION

Mounting

The AHC15A timer switch is designed for standard DIN rail mounting. Securely attach the device to a DIN rail in an appropriate electrical enclosure.

Wiring Instructions

Refer to the wiring diagram on the back of the unit for correct electrical connections. Ensure all connections are secure and comply with local electrical codes. Disconnect power before wiring.



Image 2: Back view of the Walfront AHC15A Digital LCD Programmable Timer Switch, displaying the wiring diagram for input (L, N) and output (NO, NC, Common) terminals. The model number and voltage rating are also visible.

Wiring Terminals:

- **L (Line)**: Live input (connect to AC 220V live wire).
- **N (Neutral)**: Neutral input (connect to AC 220V neutral wire).
- **1, 2**: Power supply input for the timer module (connect to AC 220V).
- **3 (Common)**: Common terminal for the relay output.
- **4 (NO)**: Normally Open contact. Connect to the load's live input for switching.
- **5 (NC)**: Normally Closed contact.

Initial Power-Up and Reset

1. Connect the timer switch to an AC 220V power source. This will also charge the internal battery.
2. Press the **RESET** button (located next to the "time" button) using a pointed object to clear all previous settings and initialize the device.

Setting Time Mode (12-hour / 24-hour)

1. By default, the timer operates in 24-hour mode.
2. To switch to 12-hour mode, press and hold the **time** button (bottom left, next to **RESET**) for 5 seconds until "AM" or "PM" appears on the display.
3. To revert to 24-hour mode, press and hold the **time** button again for 5 seconds.

OPERATING INSTRUCTIONS

Setting Current Time

After resetting, the display will show a default time. To set the current time:

1. Press the **time** button.
2. Use **D+** to set the current day of the week.
3. Use **H+** to set the current hour.
4. Use **M+** to set the current minute.
5. Press the **time** button again to save and exit.

Programming ON/OFF Times

The timer supports up to 16 ON and 16 OFF settings.

Instruction:

1, When you use the timer for the first time, input AC and charge the inbuilt battery please, then press reset button.

2, The timer is at 24-hour mode as default. Press and hold "time" button(bottom left, next to "reset") for 5 seconds till it display "AM" to set to 12-hour mode. Press and hold again "time" button for 5 seconds to set back to 24-hour mode.

Programming:

Step	Button	Programming
1	Press P	Setting "1 ON" time(display 1 on)
2	Press D+	Select days of week(if you want same set for every day, you do not need to press this button)
3	Press H+/M+	Set hours and minutes
4	Press P	Setting "1 OFF" time(display 1 off)
5	Press P	Select days week(If you want same set for every day, you do not need to press this button)
6	Press H+/M+	Set hours and minutes
7	Repeat step 2 to 6	Set other on/off time
8	Press "time"(bottom left, next to "reset")	End

Image 3: Detailed programming steps for the Walfront AHC15A Digital LCD Programmable Timer Switch, outlining button presses for setting ON/OFF times, days of the week, hours, and minutes.

Follow these steps to program a timer event:

1. Press the **P** button once. The display will show "1 ON". This is for the first ON setting.
2. Press **D+** to select the desired day(s) of the week for this ON event. Options include individual days, weekdays, weekends, or all days. If you want the same setting for every day, you do not need to press this button.
3. Press **H+** to set the hour and **M+** to set the minute for the "1 ON" event.
4. Press the **P** button again. The display will show "1 OFF". This is for the first OFF setting.
5. Press **D+** to select the desired day(s) of the week for this OFF event. (Same logic as for ON event).
6. Press **H+** to set the hour and **M+** to set the minute for the "1 OFF" event.
7. Repeat steps 1-6 for additional ON/OFF settings (up to 16 pairs). Each press of **P** will cycle through "2 ON", "2 OFF", etc.
8. After setting all desired programs, press the **time** button (bottom left, next to **RESET**) to save the settings and return to the current time display.

Manual Override (MANUAL C/R)

The **MANUAL C/R** button allows you to manually override the programmed state.

- Pressing **MANUAL C/R** cycles through ON, AUTO, and OFF modes.
- **ON**: The output is continuously ON, overriding any programmed OFF times.
- **OFF**: The output is continuously OFF, overriding any programmed ON times.
- **AUTO**: The timer operates according to the programmed ON/OFF settings. Ensure the timer is in AUTO mode for automatic operation.

MAINTENANCE

The Walfront AHC15A 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.
- The internal battery is rechargeable and designed for long-term use. If the display becomes dim or loses time frequently after power outages, the battery may need replacement by a qualified technician.

TROUBLESHOOTING

- **Display is blank:** Check power supply connections. Ensure the device is receiving 220V AC. If the internal battery is completely drained, it may take some time to charge before the display activates.
- **Programs not executing:**
 - Ensure the timer is set to **AUTO** mode using the **MANUAL C/R** button.
 - Verify that the current time and day are set correctly.
 - Double-check your programmed ON/OFF times for accuracy.
 - Ensure the load capacity is not exceeded.
- **Incorrect time display:** Reset the device and set the current time again. If the issue persists, the internal battery might be failing and require professional service.

SPECIFICATIONS

Feature	Specification
Input Voltage	AC220V (AC 180V to 264V, 50/60Hz)
Load Capacity	25A 250VAC (resistive load)
ON/OFF Settings	16 ON and 16 OFF (manual/auto)
Display	LCD
Power Consumption	4.5VA (max)
Time Error	≤2s/day (at 25°C)
Mounting Method	DIN rail
Timing Range	1 minute to 168 hours
Operating Temperature	-10°C to 55°C
Dimensions	86 x 36 x 65mm (3.38"D x 1.41"W x 2.56"H)
Weight	Approx. 150g (5.3 ounces)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the product packaging or contact Walfront customer service. Keep your purchase receipt for warranty claims.

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

Anonymous

Email

you@example.com

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