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Aramox GRT8-M1

Aramox GRT8-M1 Multifunctional Delay Time Relay User Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Aramox GRT8-M1 Multifunctional Delay Time Relay. This device is designed for industrial control applications, offering a wide range of delay functions and precise timing capabilities. Please read this manual thoroughly before using the product to ensure safe and correct operation.



Image 1: Front view of the Aramox GRT8-M1 Multifunctional Delay Time Relay, showing the control knobs and terminal connections.

2. Safety Information

Always observe the following safety precautions to prevent injury or damage to the device:

- Ensure the power supply is disconnected before installation, wiring, or maintenance.
- Installation and wiring should only be performed by qualified personnel.
- Verify that the supply voltage matches the rated voltage of the relay (AC/DC 12V~240V).
- Do not expose the device to moisture, extreme temperatures, or corrosive environments.
- Avoid exceeding the maximum switching power of 500mW.

3. Product Features

- **Multifunctional:** Offers 10 distinct delay functions, including delayed opening, delayed closing, and cyclic delay.

- **Wide Delay Range:** Adjustable delay settings from 0.1 seconds to 10 days.
- **LED Indicators:** Green LED indicates power status, and red LED indicates relay working status.
- **DIN Rail Mount:** Designed for easy installation on a 35mm DIN rail.
- **Versatile Application:** Suitable for industrial equipment, lighting control, motor control, and fan control.

4. Specifications

Parameter	Value
Rated Power Supply Voltage	AC/DC 12V~240V (50-60Hz)
Power Consumption	AC0.09-3VA / DC0.05-1.7W
Setting Method	Knob
Setting Accuracy	10%
Delay Range	0.1s - 10 days
Repeated Accuracy	0.2%
Temperature Fluctuation Error	0.05%/℃ (at = 20℃)
Minimum Switching Power	500mW
Mechanical Life	$1x10^7$ operations
Working Temperature	-20℃ ~ 55℃
Mounting Method	35mm DIN rail
Mounting Altitude	≤2000m
Dimensions (Approx.)	90mm x 64mm x 18mm (L x H x W)
Weight (Approx.)	75g / 2.6oz

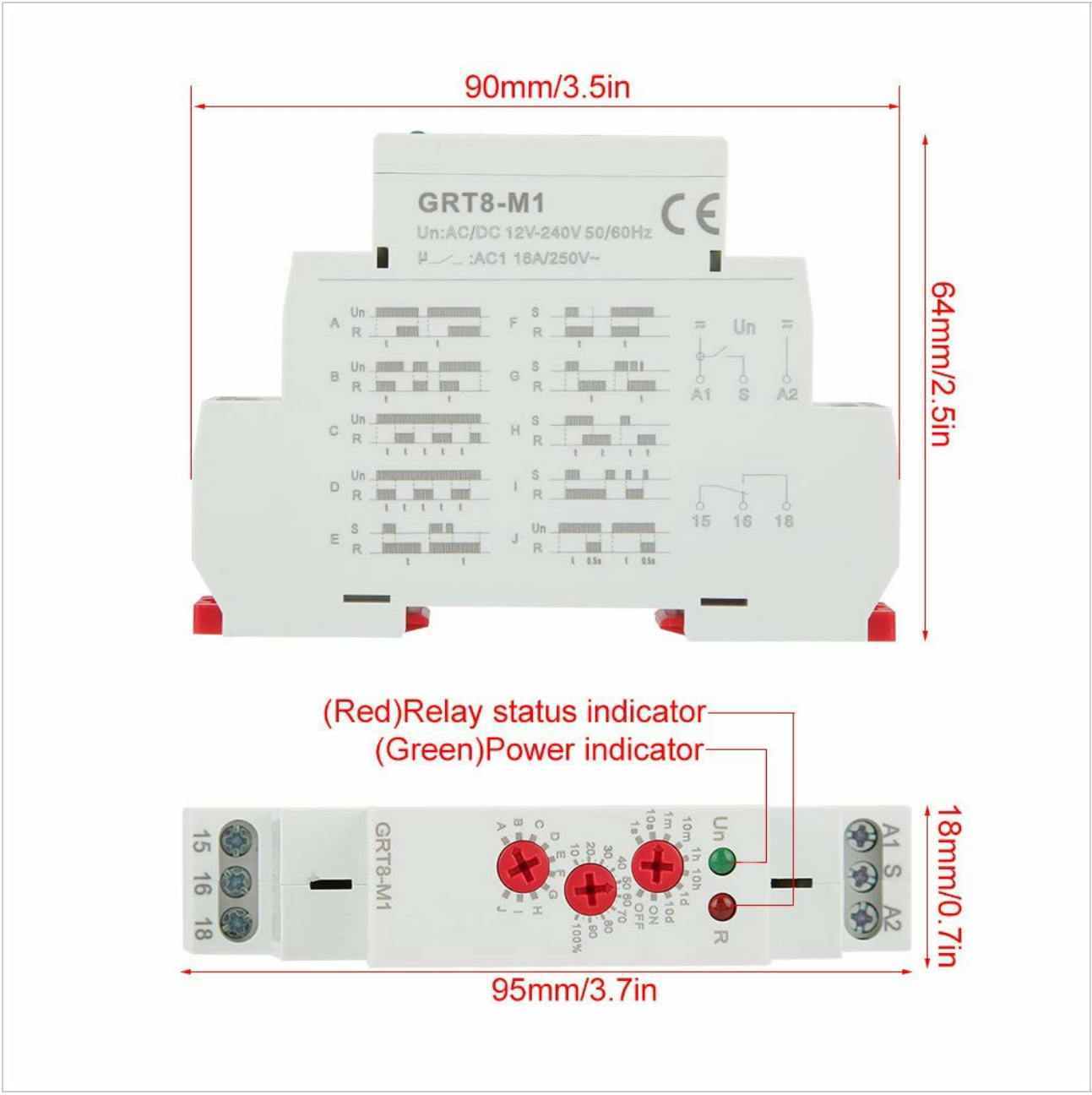


Image 2: Dimensional drawing of the Aramox GRT8-M1 relay, showing approximate measurements for installation planning.

5. Setup and Installation

5.1. Mounting

The GRT8-M1 relay is designed for easy installation on a standard 35mm DIN rail. Simply clip the device onto the DIN rail until it securely locks into place.



Image 3: The Aramox GRT8-M1 relay mounted on a standard DIN rail, demonstrating its installation method.

5.2. Wiring

Refer to the wiring diagram below for correct electrical connections. Ensure all connections are secure and comply with local electrical codes.

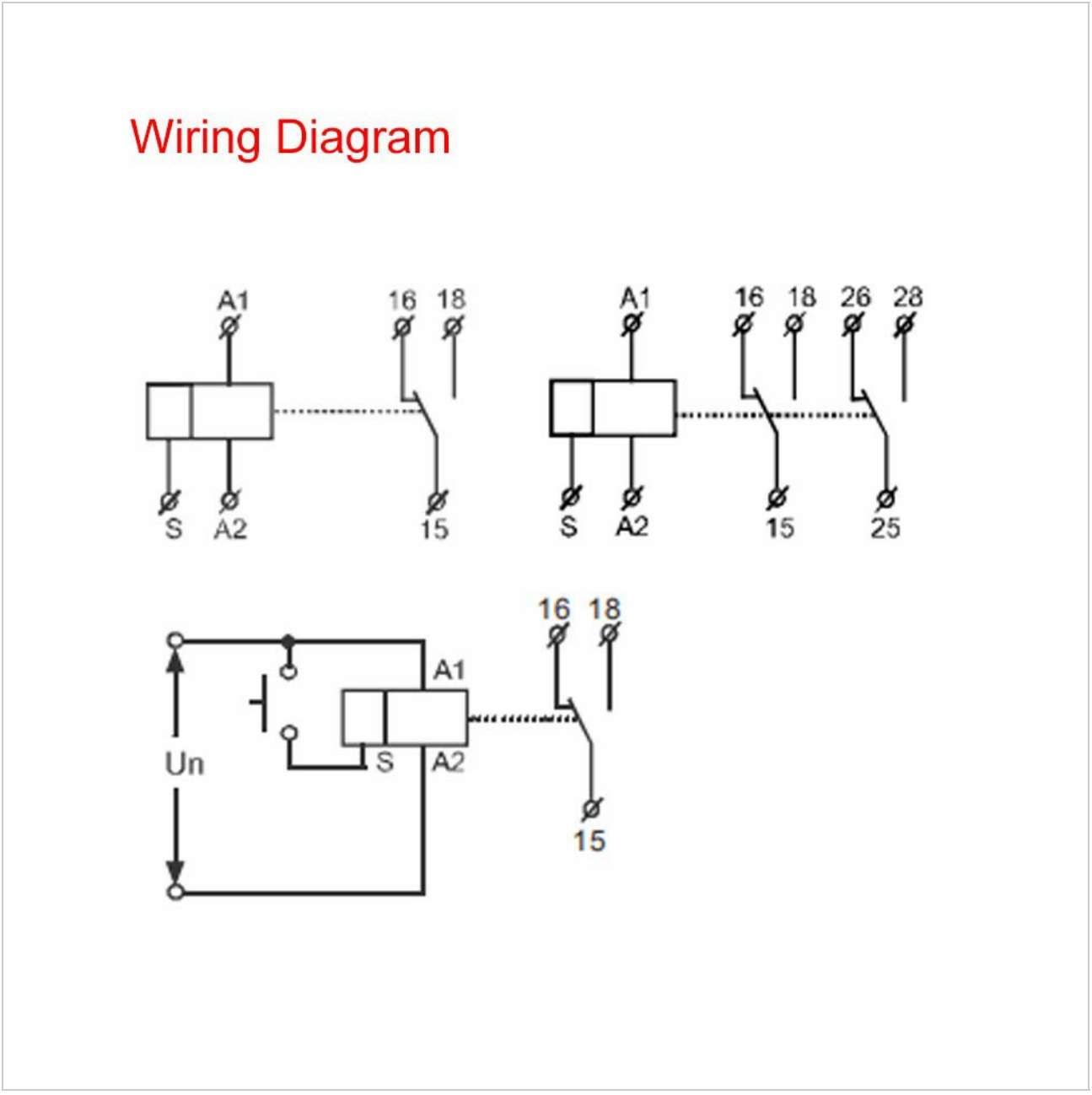


Image 4: Wiring diagram for the Aramox GRT8-M1 Multifunctional Delay Time Relay, illustrating connections for power supply (A1, A2) and output contacts (15, 16, 18).

- **Power Supply (Un):** Connect the AC/DC 12V~240V power supply to terminals A1 and A2.
- **Output Contacts:**
  - Terminal 15: Common contact.
  - Terminal 16: Normally Closed (NC) contact.
  - Terminal 18: Normally Open (NO) contact.
- Connect your load to the appropriate output contacts (15-18 for NO, 15-16 for NC) based on your application's requirements.

6. Operating Instructions

The GRT8-M1 relay features two rotary knobs for setting the delay function and time range, and two LED indicators for status monitoring.

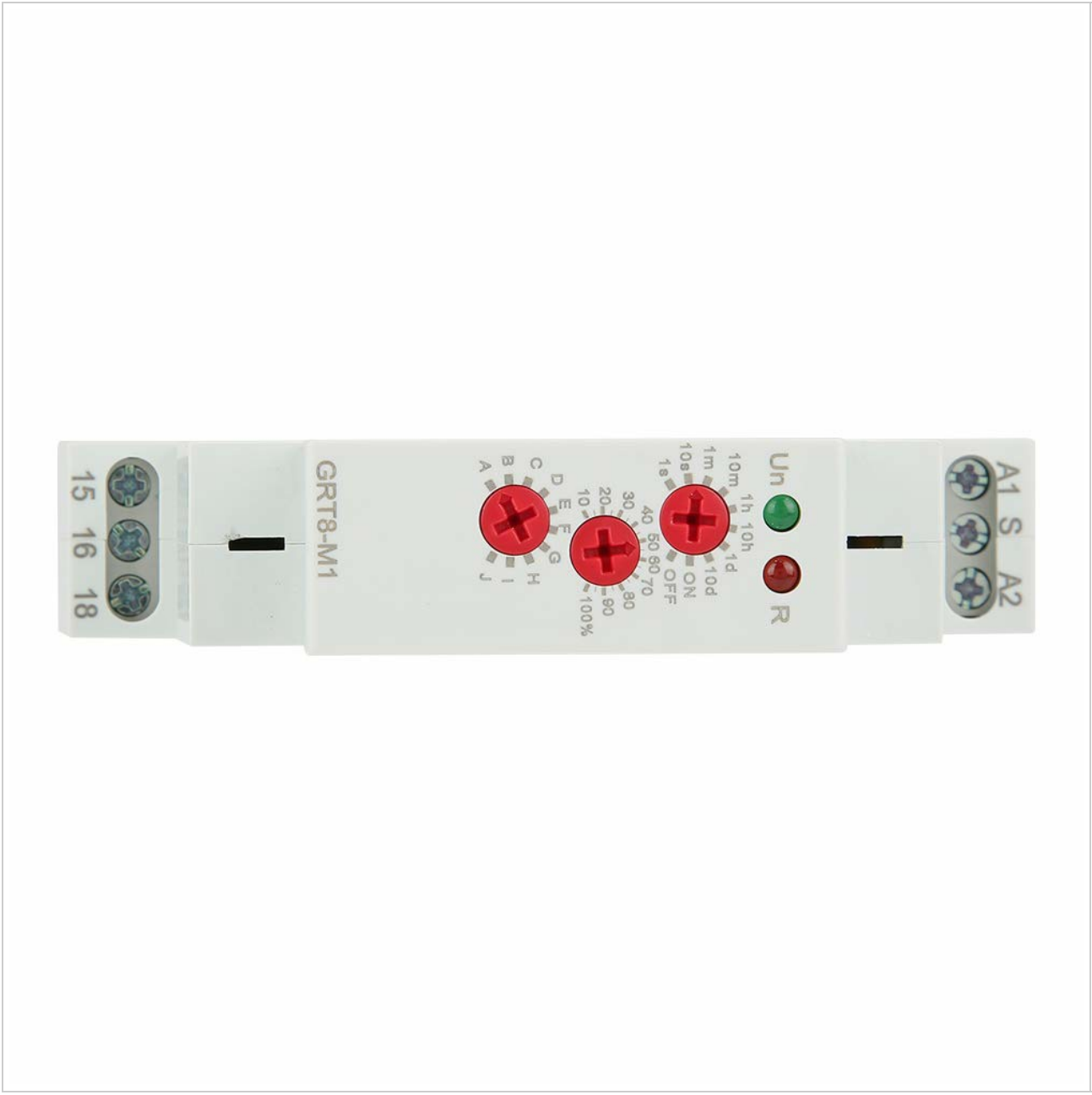


Image 5: Close-up view of the Aramox GRT8-M1 control panel, highlighting the function selection knob (A-J) and the time range/percentage adjustment knob.

6.1. Function Selection

Use the left rotary knob (labeled A-J) to select one of the 10 available delay functions. Each letter corresponds to a specific timing mode (e.g., delay on, delay off, cyclic operation). Refer to the product's technical datasheet for a detailed explanation of each function (A-J).

6.2. Time Range and Percentage Adjustment

The right rotary knob allows you to set the delay time. It has two main parts:

- **Time Range Selector:** The outer ring selects the base time unit (e.g., 1s, 10s, 1m, 10m, 1h, 10h, 1d, 10d).
- **Percentage Adjustment:** The inner knob adjusts the delay time as a percentage (0-100%) of the selected time range. For example, if '10s' is selected and the inner knob is set to '50%', the delay time will be 5 seconds.

6.3. LED Indicators

- **Green LED (Un):** Illuminates when the power supply is connected to the relay, indicating the device is

powered on.

- **Red LED (R):** Illuminates when the output relay is activated (contacts 15-18 are closed), indicating the timed function is active.

7. Maintenance

The Aramox GRT8-M1 relay is designed for long-term, reliable operation with minimal maintenance. Follow these guidelines:

- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of wear or damage.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges.
- **No User-Serviceable Parts:** Do not attempt to open or repair the device. Refer any internal issues to qualified service personnel.

8. Troubleshooting

If you encounter issues with your GRT8-M1 relay, consider the following common problems and solutions:

- **No Power (Green LED Off):**
  - Check the power supply voltage at terminals A1 and A2.
  - Ensure power connections are secure.
  - Verify the circuit breaker or fuse for the power supply.
- **Relay Not Activating (Red LED Off when expected):**
  - Confirm the selected function (A-J) and time settings are correct.
  - Check the load connected to the output contacts (15, 16, 18) for proper operation and wiring.
  - Ensure the power supply is stable and within the rated voltage.
- **Incorrect Timing:**
  - Re-check the time range and percentage adjustment knob settings.
  - Ensure the ambient temperature is within the specified operating range, as extreme temperatures can affect timing accuracy.

If the problem persists after performing these checks, contact customer support for further assistance.

9. Warranty and Support

Aramox products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service, please refer to the documentation provided with your purchase or visit the official Aramox website. Keep your purchase receipt as proof of purchase for warranty claims.

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