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Intermatic GM40AVE-RD89

Intermatic GM40AVE-RD89 LED Outdoor Digital Timer User Manual

Model: GM40AVE-RD89

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Intermatic GM40AVE-RD89 LED Outdoor Digital Timer. This heavy-duty, auto-voltage time switch is designed to control high amperage loads for various applications, including lighting, pumps, motors, and general electrical circuits. Please read this manual thoroughly before installation and operation to ensure safe and efficient use of the product.

The GM40AVE-RD89 automatically detects input voltage from 120Vac to 277Vac and features a robust Type 3R outdoor enclosure, making it suitable for demanding environments. It offers flexible 24-hour or 7-day programming with preset block programs and individual set points, along with a temporary manual override function.

Important Safety Information

WARNING: To avoid fire, shock, or death, always turn off power at the circuit breaker and test that power is off before wiring or servicing this device. Some terminals may be energized even if LED indicators are off.

- This Time Switch is designed to control one or two single-phase loads. Do NOT use to directly control three-phase loads. Consult a qualified electrician if you need to control three-phase equipment.
- Check all terminals and wires with an appropriate voltage checker before touching.
- Read instructions completely before installation and retain for future reference.
- Observe all national and local electrical and safety codes.
- Disconnect power when servicing or changing loads.
- Alterations or modifications to the device will void the warranty.
- For outdoor locations, rain-tight or wet location conduit hubs that comply with the requirements of UL 514B Conduit, Tubing, and Cable Fittings, must be used.

NOTICE:

- The circuit conductors shall have an ampacity not less than the maximum total load to be controlled.
- For all connections, use minimum 8 AWG wire for 40 A loads or 10 AWG for 30 A loads, minimum 90°C (194°F)

rating.

- Overcurrent protection shall have an interrupting rating sufficient for the application control circuit voltage and the total load current of the equipment being controlled.
- A fuse or circuit breaker shall be connected in series with each ungrounded conductor (and shall be able to simultaneously open each conductor).
- Jumper wires are not included.

Product Features

- Heavy-Duty 40 A Contact Rating
- Automatically Adjusts Voltages Between 120-277 Vac
- 24-Hour/7-Day Flexible Scheduling
- DPDT Switching Configuration (2 NO and 2 NC Contacts)
- Lithium Battery Backup
- Power and Status LED Indicators
- 3 Preset Adjustable Block Programs
- 14 Set Point Programs
- Easy-to-Follow Menu Driven Programming
- Temporary Manual Override with Load Status Indication
- Screw Box Lug Terminal Wiring Connection
- UL Type 3R Outdoor Enclosure

Package Contents

- 1 x Intermatic GM40AVE-RD89 LED Outdoor Digital Timer

Setup and Installation

Installation of the Intermatic GM40AVE-RD89 timer should only be performed by a qualified electrician in accordance with all national and local electrical codes. Ensure power is disconnected at the circuit breaker before beginning any installation work.

Mounting the Timer

The timer comes in a UL Type 3R outdoor enclosure suitable for outdoor installation. Mount the enclosure securely to a flat, stable surface using appropriate hardware. Ensure the mounting location allows for proper ventilation and access for wiring and programming.

Wiring Connections

The GM40AVE-RD89 features screw box lug terminal wiring connections. Refer to the wiring diagram provided inside the timer's enclosure or the official product documentation for specific wiring instructions. Ensure all connections are tight and secure. Use minimum 8 AWG wire for 40A loads or 10 AWG for 30A loads, rated for 90°C (194°F).



Figure 1: Front view of the Intermatic GM40AVE-RD89 timer, displaying the digital interface and indicators.



Figure 2: Side view of the GM40AVE-RD89 timer's robust outdoor enclosure.

Initial Power-Up

Once wiring is complete and verified, restore power at the circuit breaker. The timer will automatically detect the input voltage. The power and status LED indicators will illuminate, indicating the unit is receiving power and operating correctly.

Operating Instructions

The GM40AVE-RD89 features a menu-driven programming interface for easy setup of schedules.

Setting Time and Date

Upon initial power-up or after a prolonged power outage (beyond battery backup), you may need to set the current time and day. Follow the on-screen prompts or refer to the detailed programming guide for navigation through the menu to adjust these settings.

Programming Schedules (24-Hour/7-Day)

The timer supports both 24-hour and 7-day programming. You can set up to 14 individual set points (ON/OFF events) or utilize the 3 preset adjustable block programs for common scheduling needs. Navigate through the programming menu using the control buttons on the timer's face to enter desired ON/OFF times for specific days or blocks of days.

Manual Override

A temporary manual override function allows you to switch the connected load ON or OFF independently of the programmed schedule. This is useful for temporary needs without altering your established programs. The load status indication will show the current state of the connected device.

Battery Backup

The integrated lithium battery provides backup power to maintain time and program settings during power outages. This ensures your schedules are retained without needing to reprogram after a power interruption.

Maintenance

The Intermatic GM40AVE-RD89 is designed for minimal maintenance. However, periodic checks can ensure its longevity and reliable operation.

- Keep the enclosure clean and free from dust and debris. Use a soft, damp cloth for cleaning; avoid abrasive cleaners.
- Periodically inspect the wiring connections to ensure they remain secure.
- Ensure the enclosure door is properly latched to maintain its Type 3R rating and protect internal components from environmental elements.
- The internal lithium battery has a long lifespan. If the timer consistently loses time or program settings after short power outages, the battery may need replacement. Contact Intermatic support for service.

Troubleshooting

If you encounter issues with your Intermatic GM40AVE-RD89 timer, refer to the following common troubleshooting steps:

- **Timer not powering on:**
  - Check the circuit breaker supplying power to the timer.
  - Verify all wiring connections are correct and secure.
  - Ensure the input voltage is within the 120-277 Vac range.
- **Load not switching ON/OFF as programmed:**
  - Review your programmed schedules to ensure times and days are set correctly.
  - Check if the manual override is active. Deactivate it if necessary.
  - Verify the connected load is functioning correctly and not drawing excessive current.
- **Timer losing time or program settings:**
  - The internal lithium battery backup may be depleted or faulty. Contact Intermatic support for assistance.
- **LED indicators not working:**
  - If the timer is otherwise functioning, this may indicate an issue with the LEDs themselves. If the timer is not functioning, refer to "Timer not powering on" steps.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact Intermatic customer support.

Specifications

Attribute	Value
Model Number	GM40AVE-RD89
Contact Rating	40 A
Voltage	120-277 Vac (Auto-Voltage)
Frequency	60 Hz
Switching Configuration	DPDT (Double Pole Double Throw)
Programming	24-Hour / 7-Day
Number of Set Points	14
Preset Block Programs	3
Battery Backup	Lithium Ion (1 required)
Operating Temperature	-40°F to 104°F (-40°C to 40°C)
Enclosure Type	UL Type 3R Outdoor
Product Dimensions	2.9"D x 6.6"W x 8.8"H
Item Weight	0.71 Kilograms (1.57 Pounds)
Color	Gray
Certifications	cUL Listed

Warranty and Support

For warranty information, technical support, or to obtain replacement parts, please contact Intermatic customer service directly. Refer to the official Intermatic website or the product packaging for the most current contact details and warranty terms.

You can also find additional resources and downloadable documentation on the Intermatic website, including detailed wiring diagrams and programming guides.

Official Intermatic Website: www.intermatic.com

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