

Intermatic MIL72ASTUZH-24

Intermatic MIL72ASTUZH-24 Electromechanical Time Control User Manual

Model: MIL72ASTUZH-24

1. PRODUCT OVERVIEW

The Intermatic MIL72ASTUZH-24 is a 24-hour electromechanical timer module designed for integration within control panels. It supports both surface and DIN rail mounting configurations. This timer is suitable for light-duty commercial applications requiring 24 VAC single-phase control, such as lighting systems, HVACR equipment, pumps, motors, fan controls, access control systems, and general-purpose electrical circuits. The unit includes a pre-installed, non-replaceable Nickel Metal Hydride battery for internal functions.

This device features a synchronous drive mechanism and a 21 Amp SPDT switch. It is equipped with captive trippers that allow for 15-minute interval programming. Electrical connections are made via 1/4-inch quick-connect terminals. A 3-way override function provides manual control flexibility.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Installation and servicing of this device should be performed by qualified personnel only. Disconnect power at the circuit breaker or fuse box before installing or servicing. Follow all local and national electrical codes.

- Ensure the power supply matches the timer's voltage rating (24 VAC).
- Do not exceed the maximum load rating of 21 Amps.
- Keep the device dry and away from moisture.
- Do not attempt to open or repair the unit. There are no user-serviceable parts inside.

3. PACKAGE CONTENTS

- 1 x Intermatic MIL72ASTUZH-24 Electromechanical Time Control Module

4. PRODUCT FEATURES

- Synchronous drive mechanism (timekeeping relies on continuous power).
- 21 Amp Single-Pole Double-Throw (SPDT) switch for versatile load control.
- Captive trippers for setting ON/OFF intervals in 15-minute increments.
- 1/4-inch quick-connect terminals for secure and efficient wiring.
- 3-way manual override switch for temporary control without altering the program.
- Designed for surface or DIN rail mounting within control panels.
- Includes a non-replaceable internal Nickel Metal Hydride battery for internal functions.

5. INSTALLATION

Important: Installation must be performed by a qualified electrician in accordance with all applicable electrical codes.

1. **Disconnect Power:** Before beginning installation, ensure that power to the circuit is completely disconnected at the main service panel (circuit breaker or fuse box).
2. **Mounting:**
 - **Surface Mount:** Secure the timer module to a flat surface inside the control panel using appropriate fasteners through the designated mounting holes.
 - **DIN Rail Mount:** Attach the timer module to a standard DIN rail within the control panel.
3. **Wiring:** Connect the 24 VAC power supply and the load wires to the 1/4-inch quick-connect terminals as per the wiring diagram provided with the product packaging. Ensure all connections are secure.
4. **Verify Connections:** Double-check all wiring for correctness and security before restoring power.
5. **Restore Power:** Once installation is complete and verified, restore power to the circuit.



Figure 1: Front view of the Intermatic MIL72ASTUZH-24 timer module, showing the 24-hour dial with captive trippers and the manual override switch.

6. OPERATION

The MIL72ASTUZH-24 operates on a 24-hour cycle, allowing for precise scheduling of connected devices. As a synchronous drive timer, it relies on continuous power for timekeeping. In the event of a power outage, the timer will stop and will not automatically resume at the correct time when power is restored.

1. **Set Current Time:** Rotate the outer dial clockwise until the current time aligns with the time indicator arrow (usually a small triangle or line on the stationary part of the timer). The dial is marked with AM/PM indicators. If a power outage occurs, you will need to reset the current time.
2. **Program ON/OFF Times:**
 - The dial has captive trippers around its circumference. Each tripper represents a 15-minute interval.
 - To set an "ON" period, push the trippers outwards for the desired duration.
 - To set an "OFF" period, leave the trippers in their inward position.
 - The timer will activate the connected device when the dial rotates to an "ON" (outward) tripper and deactivate it when it rotates to an "OFF" (inward) tripper.

7. MANUAL OVERRIDE

The timer features a 3-way manual override switch, typically located on the front of the unit. This switch allows for temporary control of the connected load without affecting the programmed schedule.

- **AUTO:** The timer operates according to the programmed schedule.
- **ON:** The connected device is continuously ON, overriding the schedule.
- **OFF:** The connected device is continuously OFF, overriding the schedule.

Return the switch to the "AUTO" position for the timer to resume its programmed operation.

8. MAINTENANCE

The Intermatic MIL72ASTUZH-24 is designed for minimal maintenance. No routine user maintenance is required.

- **Cleaning:** If necessary, gently wipe the exterior of the timer with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Battery:** The unit contains a non-replaceable Nickel Metal Hydride battery for internal functions. This battery is not user-serviceable.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Timer not operating / Load not turning ON/OFF	No power to the timer. Incorrect wiring. Manual override switch in ON or OFF position. Trippers not set correctly. Defective timer.	Check circuit breaker/fuse. Verify wiring against diagram (consult a qualified electrician). Set manual override switch to "AUTO". Ensure trippers are pushed out for ON times and in for OFF times. Contact Intermatic customer support.
Time on dial is incorrect	Initial time setting was inaccurate. Power outage occurred.	Reset the current time on the dial. After a power outage, manually reset the current time.

If troubleshooting steps do not resolve the issue, contact Intermatic customer support for further assistance.

10. SPECIFICATIONS

Model Number	MIL72ASTUZH-24
Brand	Intermatic
Voltage	24 VAC
Switch Type	SPDT (Single-Pole Double-Throw)
Switch Rating	21 Amps
Program Intervals	15-minute captive trippers
Mounting Type	Surface / DIN Rail
Terminals	1/4-inch Quick-Connect
Manual Override	3-way switch

Dimensions (D x W x H)	2.05" x 2.83" x 4"
Item Weight	7.2 ounces (0.45 lbs)
Material	Metal
Color	White
UPC	078275153370, 614573131056

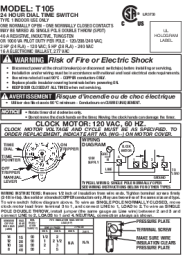
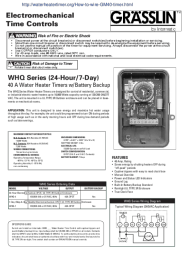

11. WARRANTY AND SUPPORT


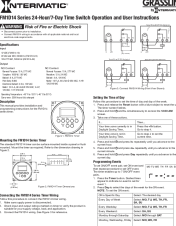

For warranty information, technical support, or service inquiries, please contact Intermatic customer service. Refer to the official Intermatic website or the product packaging for the most current contact details and warranty terms.

Intermatic Website: www.intermatic.com

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Related Documents - MIL72ASTUZH-24

 <p>MODEL T105 24-HOUR DIAL TIME SWITCH</p> <p>WARNING: Risk of Fire or Electric Shock</p> <p>PRECAUTIONS: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p> <p>INSTALLATION: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p> <p>OPERATION: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p> <p>INTERMATIC INCORPORATED 1000 N. 10TH AVE., SUITE 100 MILWAUKEE, WI 53233-1000 1-800-451-7273</p>	<p>Intermatic T105 24-Hour Dial Time Switch: Installation, Wiring, and Operation Guide</p> <p>Comprehensive guide for the Intermatic T105 24-hour mechanical dial time switch. Covers model specifications, safety warnings, wiring instructions for various configurations (SPNO, SPNC, SPDT), programming procedures, and manual operation. Includes a detailed table of electrical ratings and wire gauge recommendations.</p>
 <p>Electromechanical Time Controls</p> <p>GRASSLIN</p> <p>WHQ Series (24-Hour/7-Day) 40-A Water Heater Timers with Battery Backup</p> <p>WARNING: Risk of Fire or Electric Shock</p> <p>PRECAUTIONS: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p> <p>INSTALLATION: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p> <p>OPERATION: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p>	<p>Intermatic WHQ Series 40A Water Heater Timers with Battery Backup - Installation and Operation Manual</p> <p>Detailed information on the Intermatic WHQ Series 24-Hour/7-Day electromechanical water heater timers, including features, specifications, installation guide, programming instructions, and warranty information. Designed for residential, commercial, and industrial use.</p>
 <p>Intermatic KM2 Series In-Wall Timer</p> <p>WARNING: Risk of Fire or Electric Shock</p> <p>PRECAUTIONS: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p> <p>INSTALLATION: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p> <p>OPERATION: Read and understand all instructions before using this product. Do not use this product if it is damaged or if it does not work properly. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application. Do not use this product if it is not rated for the intended application.</p>	<p>Intermatic KM2 Series In-Wall Timer: Installation and Operating Instructions</p> <p>Comprehensive guide for installing and operating the Intermatic KM2 Series In-Wall Timers. Learn about features, specifications, programming, and wiring for automatic control of lighting and other circuits.</p>

 <p>INTERMATIC DIGITAL - 24-Hour Digital Time Switch K1000-2010</p> <p>SAFETY SECTION</p> <p>PRODUCT DESCRIPTION</p> <p>Specifications</p> <p>Warranty</p>	<p>Intermatic DT101 24-Hour Digital Time Switch: Installation and Operation Guide</p> <p>A comprehensive guide for installing, programming, and operating the Intermatic DT101 24-Hour Digital Time Switch. Covers safety precautions, product specifications, setup, programming, operation modes, and warranty information.</p>
 <p>INTERMATIC FM1D14 Series 24-Hour/7-Day Time Switch Operation and User Instructions</p> <p>SAFETY SECTION</p> <p>PRODUCT DESCRIPTION</p> <p>Specifications</p> <p>Warranty</p>	<p>Intermatic FM1D14 Series 24-Hour/7-Day Time Switch Operation and User Instructions</p> <p>Comprehensive user manual for the Intermatic FM1D14 Series 24-Hour/7-Day Time Switch, covering installation, wiring, programming, operation, and troubleshooting. Includes specifications and warranty information.</p>
 <p>INTERMATIC T170, T1400 & T1800 Series Electromechanical Time Switches</p> <p>PRODUCT DESCRIPTION</p> <p>Specifications</p> <p>Warranty</p>	<p>Intermatic T170, T1400 & T1800 Series Electromechanical Time Switches</p> <p>Comprehensive details on Intermatic T170, T1400, and T1800 Series 24-Hour Electromechanical Time Switches, covering features, specifications, ratings, model variations, and wiring diagrams for commercial, industrial, and residential applications.</p>