

AUTONICS AT11DN-24-240

AUTONICS AT11DN-24-240 Multi-Function Timer Instruction Manual

Model: AT11DN-24-240 | Brand: AUTONICS

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the AUTONICS AT11DN-24-240 Multi-Function Timer. This device is designed for precise timing control in various industrial and commercial applications, offering a wide timing range from 0.05 seconds to 100 hours and operating on 100VAC-240VAC power.

2. SAFETY PRECAUTIONS

Read these safety precautions carefully before using the product to ensure proper and safe operation. Failure to follow these instructions may result in electric shock, fire, or product damage.

- Electrical Safety:** Ensure all wiring is performed by qualified personnel in accordance with local and national electrical codes. Disconnect power before installation, inspection, or maintenance.
- Power Supply:** Verify that the power supply voltage matches the product's specified voltage range (100VAC-240VAC). Incorrect voltage can cause damage.
- Installation Environment:** Install the timer in an environment free from excessive vibration, dust, moisture, corrosive gases, or direct sunlight. Ensure adequate ventilation.
- Terminal Connections:** Securely fasten all terminal connections to prevent loose contacts, which can lead to overheating or malfunction.
- Load Capacity:** Do not exceed the specified contact rating (5A resistive load). Overloading can damage the internal relay.

3. PRODUCT OVERVIEW

The AUTONICS AT11DN-24-240 is a compact multi-function timer featuring a clear rotary dial for time setting and various indicators for operational status.



Figure 1: Front panel of the AUTONICS AT11DN-24-240 Multi-Function Timer.

This image displays the front panel of the AUTONICS AT11DN-24-240 Multi-Function Timer. Visible elements include the central rotary dial for time setting, marked with a scale from 0 to 10. Above the dial, there are 'POWER' and 'RUN' indicator lights. To the right, an 'OUT' indicator and a 'MODE' selector switch are present. The brand name 'Autonics' is printed at the bottom right of the panel.

3.1. Front Panel Components

- **Time Setting Dial:** Rotary dial for setting the desired time value within the selected range.
- **POWER Indicator:** Illuminates when power is supplied to the timer.
- **RUN Indicator:** Illuminates during the timing operation.
- **OUT Indicator:** Illuminates when the output relay is activated.
- **MODE Selector:** Switch to select the desired operating mode (e.g., ON-delay, Interval).

4. SETUP

4.1. Mounting

The AT11DN-24-240 timer is designed for panel mounting. Ensure sufficient space for wiring and ventilation. Secure the timer using the provided mounting hardware.

4.2. Wiring

Refer to the wiring diagram printed on the side of the timer or in the detailed product datasheet for specific terminal connections. Common connections include:

- **Power Supply (100-240VAC):** Connect the main power supply to the designated terminals.
- **Output Contacts:** Connect the load to the normally open (NO) and common (COM) terminals of the output relay. Ensure the load current does not exceed 5A resistive.
- **Control Input (if applicable):** Some modes may utilize external control inputs (e.g., START, RESET). Connect these as per the specific mode's requirements.

Warning: Ensure power is disconnected before performing any wiring.

4.3. Initial Settings

- **Time Range Selection:** The timer supports various time ranges (e.g., seconds, minutes, hours). Select the appropriate range using the internal DIP switches or external selector, if present (refer to the detailed product datasheet for specific model configuration).
- **Operating Mode Selection:** Use the 'MODE' selector switch on the front panel to choose the desired timing function (e.g., ON-delay, OFF-delay, Interval, Flicker).

5. OPERATING INSTRUCTIONS

5.1. Setting the Time

Rotate the central time setting dial to the desired time value. The dial is typically marked with a scale from 0 to 10, representing a percentage of the selected time range. For example, if the range is 10 minutes, setting the dial to '5' would correspond to 5 minutes.

5.2. Powering On

Once wiring and settings are complete, apply power to the timer. The 'POWER' indicator will illuminate.

5.3. Timing Operation

Depending on the selected mode:

- For ON-delay mode, timing begins immediately upon power application or trigger. The 'RUN' indicator will illuminate.
- Upon completion of the set time, the output relay will activate, and the 'OUT' indicator will illuminate.
- For other modes, refer to the specific timing chart in the detailed product datasheet.

6. MAINTENANCE

The AUTONICS AT11DN-24-240 timer is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance.

- **Cleaning:** Gently wipe the exterior of the timer with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect wiring connections for tightness and signs of wear or damage. Check for

any unusual sounds or odors during operation.

- **Storage:** If storing the timer, keep it in a dry, dust-free environment within the specified temperature and humidity ranges.

7. TROUBLESHOOTING

If the timer does not operate as expected, consult the following table before contacting support.

Problem	Possible Cause	Solution
Timer does not power on (POWER indicator off)	No power supply; Incorrect wiring; Blown fuse (external)	Check power source; Verify wiring connections; Inspect external fuse.
Timing does not start (RUN indicator off)	Incorrect mode selection; No trigger signal (if applicable); Faulty unit	Verify operating mode; Check trigger input; Contact support if unit is faulty.
Output does not activate (OUT indicator off)	Timing not complete; Incorrect load wiring; Overloaded output	Wait for timing cycle to complete; Check load connections; Ensure load current is within 5A resistive.
Inaccurate timing	Incorrect time setting; Incorrect time range selection	Adjust time setting dial; Verify time range selection.

8. SPECIFICATIONS

Key technical specifications for the AUTONICS AT11DN-24-240 Multi-Function Timer:



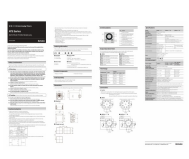



Feature	Specification
Model Number	AT11DN-24-240
Brand	AUTONICS
Time Range	0.05 seconds to 100 hours
Supply Voltage	100VAC - 240VAC
Power Consumption	1.5W
Output Type	Relay Output (1c)
Contact Rating	5A Resistive Load
Reset Time	100ms
Material	Plastic
Package Dimensions	4.49 x 3.19 x 2.28 inches
Item Weight	4.41 ounces

9. WARRANTY AND SUPPORT

AUTONICS products are manufactured under strict quality control standards. For specific warranty terms and conditions, please refer to the warranty information provided with your purchase or visit the official AUTONICS website. For technical assistance, troubleshooting beyond this manual, or repair services, please contact AUTONICS customer support or your authorized distributor.

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Related Documents - AT11DN-24-240

	<p>Autonics LE7M-2 Series LCD Week/Year Digital Timer Instruction Manual</p> <p>Detailed instruction manual for Autonics LE7M-2 Series digital timers, covering W 72xH 72mm LCD display, weekly/yearly programming, safety, specifications, and installation. Includes LE7M-2B and LE7M-2D models.</p>
	<p>Autonics ATM Series Analog Timers Catalog</p> <p>Comprehensive catalog detailing the Autonics ATM Series of miniature analog timers. Includes specifications, ordering information, features, dimensions, and pin arrangements for models ATM4-2, ATM4-5, and ATM4-6.</p>
	<p>Autonics ATS Series W 38 x H 42 mm Analog Timers Instruction Manual Technical Specifications</p> <p>Detailed instruction manual and technical specifications for Autonics ATS Series W 38 x H 42 mm analog timers. Covers operation modes, time ranges, dimensions, connections, and electrical specifications for models ATS11, ATS11-TD, and ATS11-TF.</p>
	<p>Autonics Multi Pulse Meters MP5S/MP5Y/MP5W Series Product Manual</p> <p>This product manual provides detailed information on Autonics MP5S, MP5Y, and MP5W series multi pulse meters, covering features, safety guidelines, ordering, specifications, operation modes, functions, and connection examples.</p>
	<p>Autonics LE3S Series LCD Digital Thumbwheel Switch Timers Instruction Manual</p> <p>Instruction manual for Autonics LE3S Series LCD Digital Thumbwheel Switch Timers, covering ordering information, product components, dimensions, safety considerations, cautions during use, specifications, output operation modes, time ranges, connections, and UP/DOWN mode.</p>
	<p>Autonics LE4S Series LCD Digital Timers Instruction Manual</p> <p>Instruction manual for Autonics LE4S Series LCD Digital Timers, covering safety considerations, ordering information, dimensions, unit descriptions, output operation modes, parameter settings, connections, and detailed specifications.</p>

