

Intermatic CT2000

Intermatic CT2000 Percentage Cycle Time Switch User Manual

1. INTRODUCTION

The Intermatic CT2000 Percentage Cycle Time Switch is designed for precise control of electrical loads based on a percentage of a selected cycle time. This device is suitable for various applications including ventilating fans, fogging equipment, process equipment, poultry and livestock feeders, and spraying equipment. It operates on 120/240 VAC at 60 Hz and features a NEMA 3R enclosure for durability. This manual provides essential information for the safe and effective installation, operation, and maintenance of your CT2000 timer.

2. PRODUCT OVERVIEW

Key Features:

- Offers 8 field-selectable cycle durations: 30 seconds, 60 seconds (1 minute), 180 seconds (3 minutes), 5 minutes, 10 minutes, 30 minutes, 1 hour, and 4 hours.
- Front cover push-button control for flexible repetitive cycle times.
- Includes temporary and permanent manual override functions.
- Three distinct positions allow for precise percentage ON time selection.
- User settings are securely stored in non-volatile memory.

Components:

The CT2000 features a clear dial for setting the percentage ON time, a 'Select Cycle Time' button, and indicator lights for cycle duration and ON/OFF status.



Figure 1: Front view of the Intermatic CT2000 Percentage Cycle Time Switch. The image displays the main dial for percentage ON time selection, the 'Select Cycle Time' button, and a row of LEDs indicating the chosen cycle duration (30s, 60s, 180s, 5m, 10m, 30m, 1h, 4h). Instructions for programming the cycle timer are printed on the lower part of the device's label.

3. SETUP AND INSTALLATION

Installation of the Intermatic CT2000 involves electrical wiring. It is recommended that installation be performed

by a qualified electrician in accordance with all local and national electrical codes. Ensure power is disconnected at the circuit breaker before beginning any wiring.

General Installation Notes:

- The device is designed for surface mounting.
- Connect the timer to a 120/240 VAC, 60 Hz power source.
- Ensure proper grounding as per electrical safety standards.
- Refer to the wiring diagram provided inside the unit's enclosure for specific connection details.

4. OPERATING INSTRUCTIONS

The CT2000 allows you to set a specific cycle duration and then determine what percentage of that cycle the connected load will be ON.

Programming the Cycle Timer:

1. **Select Total Cycle Time:** Turn the central knob until the "Select Cycle Time" arrow on the dial aligns with the triangle indicator. This action selects the total duration for one complete cycle (e.g., 30 seconds, 1 hour, 4 hours).
2. **Scroll Through Cycle Times:** Push the 'Select Cycle Time' button to scroll through the available cycle durations. The corresponding LED above the dial will illuminate to indicate the currently selected cycle time.
3. **Save Desired Cycle Time:** Once the desired cycle time is displayed by the LED, push and hold the 'Select Cycle Time' button until the LED blinks. This action saves the selected cycle duration.
4. **Set Percentage ON Time:** Turn the central knob again until the desired percentage of the cycle time (e.g., 10%, 50%, 90%) aligns with the triangle indicator. This sets how long the load will be active within the chosen total cycle duration.

The timer will now operate according to your programmed settings. The 'OFF' and 'ON' indicators will show the current status of the output.

5. MAINTENANCE

The Intermatic CT2000 Percentage Cycle Time Switch is designed for minimal maintenance. Regular inspection is recommended to ensure optimal performance.

Maintenance Guidelines:

- **Cleaning:** Periodically wipe the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the wiring connections for tightness and signs of wear or corrosion. Ensure the enclosure remains sealed and free from damage.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage. The NEMA 3R enclosure provides protection against rain, sleet, and external ice formation.

Always disconnect power before performing any maintenance or inspection.

6. TROUBLESHOOTING

If the Intermatic CT2000 is not functioning as expected, consider the following troubleshooting steps:

Common Issues and Solutions:

- **No Power:** Check the circuit breaker to ensure power is supplied to the unit. Verify all wiring connections are secure.
- **Load Not Activating:** Confirm that the percentage ON time is set correctly and that the cycle duration is active. Check the connected load for functionality.
- **Incorrect Timing:** Re-program the cycle time and percentage ON time following the operating instructions carefully. Ensure the LED blinks to confirm saving of the cycle duration.
- **Unit Not Responding:** If the unit is completely unresponsive, disconnect power for a few minutes and then restore it. If the issue persists, professional assistance may be required.

For persistent issues or complex problems, contact Intermatic customer support or a qualified electrician.

7. SPECIFICATIONS

Attribute	Specification
Model Number	CT2000
Brand	Intermatic
Material	Aluminum
Voltage Rating	120/240 VAC, 60 Hz
Enclosure Rating	NEMA 3R
Product Dimensions (D x W x H)	3.31" x 3.5" x 6.63"
Item Weight	1.4 Pounds
Number of Settings	8 (Cycle Durations)
Switch Style	Push Button Switch
UPC	078275124363

8. WARRANTY AND SUPPORT

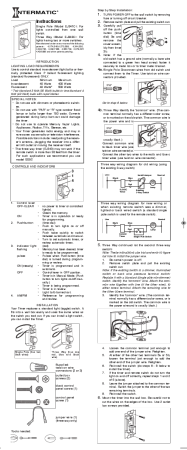
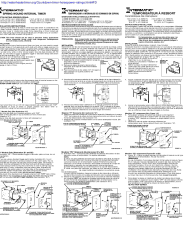
Warranty Information:

The Intermatic CT2000 Percentage Cycle Time Switch comes with a **1-year limited warranty**. This warranty covers replacement of the unit due to manufacturing defects but does not include labor costs for removal or reinstallation.

Customer Support:

For technical assistance, warranty claims, or further inquiries, please contact Intermatic customer support. Refer to the official Intermatic website or product packaging for the most current contact information.

Related Documents - CT2000

	Intermatic EJ341C/EJ343C Lighting Timer Switch Installation and Programming Guide Detailed instructions for installing and programming Intermatic EJ341C (Single Pole) and EJ343C (Three Way) lighting timer switches. Covers setup, controls, programming methods, troubleshooting, and specifications.
	Intermatic DT101 24-Hour Digital Time Switch: Installation and Operation Guide 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.
	Intermatic TIME-ALL HB114 Heavy Duty 240V Timer - Setup and Operation Guide Comprehensive guide for the Intermatic TIME-ALL HB114 Heavy Duty 240V plug-in timer, covering setup, programming, manual operation, specifications, and safety warnings.
	Intermatic Spring Wound Interval Timer Installation and Operation Guide Detailed installation, operation, and application guide for Intermatic spring wound interval timers (FF and FD models). Includes switch ratings, wiring diagrams, and warranty information.
	Intermatic EJ351 Indoor Wall Switch Timer: Installation, Programming, and Troubleshooting Guide Comprehensive guide for installing, programming, and troubleshooting the Intermatic EJ351 Indoor Wall Switch Timer. Learn how to set schedules, use automatic and manual modes, and resolve common issues.

Detailed guide for the Intermatic T1471BR 24-hour dial time switch, covering installation, wiring, programming, and operating instructions for pool equipment and other applications. Features include Skipper® functionality and 4-pole single throw design.