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## AUTONICS CT6M-2P4

# AUTONICS CT6M-2P4 Counter/Timer Instruction Manual

Model: CT6M-2P4

## 1. INTRODUCTION

This manual provides essential information for the safe and effective use of the AUTONICS CT6M-2P4 Counter/Timer. This device is designed for industrial applications requiring precise counting and timing functions. It features a 6-digit LED display, multiple input/output options, and supports various operating modes including batch counting and prescale value setting.

Please read this manual thoroughly before installation, operation, or maintenance to ensure proper functionality and to prevent potential hazards.

## 2. SAFETY INFORMATION

Observe all safety precautions to prevent electric shock, fire, or product malfunction. Failure to follow these instructions may result in serious injury or damage.

- **Electrical Installation:** All electrical work must be performed by qualified personnel in accordance with local and national electrical codes.
- **Power Supply:** Ensure the power supply voltage (100-240 VAC) matches the device specifications. Incorrect voltage can damage the unit.
- **Wiring:** Verify all wiring connections are secure and correct before applying power. Incorrect wiring can lead to malfunction or damage.
- **Environment:** Do not install the device in locations subject to excessive vibration, shock, high humidity, direct sunlight, or corrosive gases.
- **Maintenance:** Disconnect power before performing any maintenance or inspection.

## 3. PRODUCT OVERVIEW

The AUTONICS CT6M-2P4 is a versatile panel-mount counter/timer. It features a clear 6-digit LED display for easy reading of values and status. The unit is equipped with various inputs and outputs to integrate into diverse control systems.



This image shows the front panel of the AUTONICS CT6M-2P4 Counter/Timer, featuring its 6-digit LED display and various control buttons for setting parameters and operating the device.

### Key Features:

- 6-Digit LED Display
- Dual Function: Counter and Timer
- Wide Power Supply Range: 100-240 VAC
- 2 Preset Outputs
- 2 Relay Outputs: SPDT(1C) + SPST(1A), 250VAC 5A
- 3 NPN Open Collector Outputs
- PNP or NPN Input Compatibility
- Batch Counting Function
- Prescale Value Setting
- Panel Mount Design (W72XH72MM)

## 4. SPECIFICATIONS

Technical specifications for the AUTONICS CT6M-2P4 Counter/Timer:

Parameter	Specification
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Parameter	Specification
Manufacturer	AUTONICS
Part Number	CT6M-2P4
Item Model Number	CECOMINOD059408
Power Supply	100-240 VAC
Display Type	6-Digit LED Digital
Output Type	2 Preset, 2 Relay (SPDT+SPST), 3 NPN Open Collector
Relay Contact Rating	250VAC 5A
Input Type	PNP or NPN
Mounting Type	Panel Mount
Dimensions (W x H)	72mm x 72mm (approx. 2.83 x 2.83 inches)
Item Weight	6.2 ounces (approx. 175g)
Certification	CE

## 5. SETUP AND INSTALLATION

Proper installation is crucial for the reliable operation of the CT6M-2P4. Refer to the detailed wiring diagrams provided with the product packaging for specific terminal connections.

### 5.1 Mounting

- Cut a panel cutout of 68x68mm (2.68x2.68 inches) for panel mounting.
- Insert the unit into the cutout from the front.
- Secure the unit using the provided mounting brackets from the rear of the panel.

### 5.2 Wiring

- **Power Supply:** Connect the 100-240 VAC power supply to the designated power terminals.
- **Input Signals:** Connect the PNP or NPN input sensor/signal source to the input terminals. Ensure correct polarity for NPN/PNP types.
- **Output Connections:** Connect the load devices to the relay outputs (SPDT, SPST) and NPN open collector outputs as required by your application. Observe maximum voltage and current ratings for the outputs.
- **Grounding:** Ensure the unit is properly grounded to prevent electrical noise and ensure safety.

## 6. OPERATING INSTRUCTIONS

The CT6M-2P4 offers various operating modes for counting and timing. Refer to the detailed programming guide in the full product manual for advanced settings.

### 6.1 Basic Operation Modes

- **Counter Mode:** The device counts input pulses and activates outputs when a preset value is reached.

- **Timer Mode:** The device measures time intervals and activates outputs based on preset time values.

## 6.2 Setting Presets

Use the front panel buttons to navigate through the menu and set the desired preset values for counting or timing. The 6-digit LED display will show the current value and allow for adjustment.

## 6.3 Prescale Value Setting

The prescale function allows the input pulses to be multiplied or divided by a set value before being displayed or processed. This is useful for converting raw pulse counts into meaningful units (e.g., liters, meters).

## 6.4 Batch Function

The batch function enables counting or timing of multiple cycles or batches, providing an additional layer of control for repetitive processes.

## 7. MAINTENANCE

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The AUTONICS CT6M-2P4 is designed for long-term, reliable operation with minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the display and housing. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check wiring connections for tightness and signs of damage.
- **No User Serviceable Parts:** Do not attempt to open or repair the unit. Refer all servicing to qualified personnel.

## 8. TROUBLESHOOTING

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If the device does not operate as expected, perform the following basic checks:

- **No Power/Display Off:**
  - Verify the power supply voltage is within the 100-240 VAC range.
  - Check power wiring connections for continuity and proper terminal contact.
- **Incorrect Counting/Timing:**
  - Ensure input sensor/signal is correctly wired and functioning.
  - Verify the input type (PNP/NPN) setting matches the sensor.
  - Check preset values and prescale settings.
  - Confirm the operating mode (counter/timer) is correctly selected.
- **Output Not Activating:**
  - Check output wiring to the load device.
  - Verify the load device is functioning correctly.
  - Ensure the preset value has been reached and the output condition is met.

If problems persist after performing these checks, contact AUTONICS technical support or your local distributor for assistance.

## 9. WARRANTY AND SUPPORT

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AUTONICS products are manufactured under strict quality control standards. For specific warranty terms

and conditions, please refer to the warranty card included with your product or visit the official AUTONICS website.

For technical support, service, or inquiries, please contact your authorized AUTONICS distributor or the AUTONICS customer service department. Have your product model number (CT6M-2P4) and serial number ready when contacting support.

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