

GOWE XC3-32T-E

GOWE XC3-32T-E PLC User Manual

Model: XC3-32T-E

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the GOWE XC3-32T-E Programmable Logic Controller (PLC). The XC3-32T-E is a robust and reliable industrial control device designed for various automation applications. Please read this manual thoroughly before using the product to ensure safe and efficient operation.



Figure 1: Front view of the GOWE XC3-32T-E PLC unit. This image shows the compact design and the various input/output terminals accessible on the front panel.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury and damage to the equipment:

- Ensure power is disconnected before installation or maintenance.

- Only qualified personnel should perform installation and wiring.
- Do not expose the PLC to excessive moisture, dust, or corrosive gases.
- Verify correct voltage supply (230 Volts AC) as specified for the unit.
- Ground the unit properly to prevent electrical shock.

3. SETUP AND INSTALLATION

3.1 Unpacking and Inspection

Carefully unpack the XC3-32T-E PLC and inspect it for any signs of damage during transit. Report any damage to your supplier immediately.

3.2 Mounting

The PLC should be mounted in a control cabinet or enclosure that provides adequate ventilation and protection from environmental factors. Use standard DIN rail mounting for secure installation.

3.3 Wiring

Connect the power supply, input devices, and output devices according to the wiring diagrams provided in the detailed product documentation (not included in this general manual). Ensure all connections are secure and correctly polarized. The XC3-32T-E operates on 230 Volts AC. Refer to the terminal markings for specific input and output assignments.

Functional Specification		
Item		Specification
Program Operation Mode		Circulation scanning mode, timing scanning mode
Program Mode		Instructions and ladder chart
Dispose Speed		0.5us
Power Failure Holding		Flash ROM
User Program's Capacity		8000 steps
I/O Points		14 input points,10 output points
Output Format		Relay
Power Supply		AC220V
Interior Coil's Points (M)		8512 points
	Points	620 points
Timer(T)	Specification	100mS timer:set time 0.1~3276.7 seconds
		10mS timer:set time 0.01~327.67 seconds
	Points	1mS timer:set time 0.001~32.767 seconds
		635 Points
Counter(C)	Specification	16 bits counter::Set value K0~32767
		32 bits counter:Set value K0~2147483647
Data Register(D)		8512 characters
Flash ROM Register(FD)		2048 characters
High-speed Count Format		-
Timing Scanning Interval Setting		1~99mS
Password Protection		6 characters ASCII
Self-diagnose Function		Power on self-diagnose, monitor timer, grammar check

Figure 2: Functional Specification Table for the GOWE XC3-32T-E PLC. This table details various operational parameters such as program operation mode, I/O points, power supply, timer, and counter specifications.

4. OPERATING INSTRUCTIONS

4.1 Powering On

Once all wiring is complete and verified, apply power to the PLC. The power indicator LED should illuminate, indicating

successful power-up.

4.2 Programming

The XC3-32T-E PLC supports programming via instructions and ladder chart. Programming is typically done using dedicated software on a computer connected to the PLC via a communication port (not detailed in this manual). Refer to the programming software manual for detailed instructions on creating, downloading, and debugging programs. The PLC features a program capacity of 8000 steps and supports a dispose speed of 0.5 microseconds.

4.3 Operation Modes

The PLC operates in a circulation scanning mode with timing scanning mode. This ensures efficient execution of the control logic.

5. MAINTENANCE

The GOWE XC3-32T-E PLC is designed for minimal maintenance. However, regular checks can extend its lifespan and ensure reliable operation:

- **Cleaning:** Periodically clean the exterior of the PLC with a soft, dry cloth. Do not use solvents or abrasive cleaners.
- **Connections:** Routinely check all wiring connections for tightness and signs of corrosion.
- **Ventilation:** Ensure that the ventilation openings are not obstructed to prevent overheating.
- **Environment:** Maintain the operating environment within specified temperature and humidity ranges.

6. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, contact technical support.

Problem	Possible Cause	Solution
PLC does not power on.	No power supply; incorrect voltage; faulty wiring.	Check power source (230V); verify wiring connections; inspect fuses.
Inputs not responding.	Incorrect wiring; faulty input device; program error.	Verify input wiring; test input device; check PLC program logic.
Outputs not activating.	Incorrect wiring; faulty output device; program error.	Verify output wiring; test output device; check PLC program logic.
PLC enters error state.	Program error; hardware fault; communication issue.	Review program for errors; perform self-diagnose function; check communication cables.

The PLC features a self-diagnose function that can monitor timer, grammar, and check for power-on issues.

7. SPECIFICATIONS

Feature	Specification
Model Number	XC3-32T-E (Manufacturer Part Number: GWE-1008463)
Brand	GOWE

Feature	Specification
Program Operation Mode	Circulation scanning mode, timing scanning mode
Program Mode	Instructions and ladder chart
Dispose Speed	0.5us
Power Failure Holding	Flash ROM
User Program's Capacity	8000 steps
I/O Points	14 input points, 10 output points
Output Format	Relay
Power Supply	AC220V (Note: Product specification states 230 Volts)
Interior Coil's Points (M)	8512 points
Timer (T)	620 points (100mS timer: set time 0.1~3276.7 seconds; 10mS timer: set time 0.01~327.67 seconds; 1mS timer: set time 0.001~32.767 seconds)
Counter (C)	635 Points (16 bits counter: Set value K0~32767; 32 bits counter: Set value K0~2147483647)
Data Register (D)	8512 characters
Flash ROM Register (FD)	2048 characters
High-speed Count Format	-
Timing Scanning Interval Setting	1~99ms
Password Protection	6 characters ASCII
Self-diagnose Function	Power on self-diagnose, monitor timer, grammar check
Item Weight	2.2 pounds
Date First Available	January 2, 2015

Note: The product specifications indicate a voltage of 230 Volts, while the functional specification image lists AC220V. Please refer to the product label for the exact voltage requirement.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please contact GOWE customer service or refer to the official GOWE website. Keep your purchase receipt for warranty claims.

Manufacturer: Gowegroup

For further assistance, you may visit the [GOWE Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question