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CBBEXP 1756-L85E

CBBEXP 1756-L85E ControlLogix 5580 Controller User Manual

Model: 1756-L85E

1. Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the CBBEXP 1756-L85E ControlLogix 5580 Controller. This device is a Programmable Logic Control (PLC) product designed for industrial automation applications.

Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. Safety Information

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning). Handle with care and follow all local safety regulations.

- Always disconnect power before installing, wiring, or performing maintenance on the controller.
- Ensure proper grounding to prevent electrical shock.
- Installation and servicing should only be performed by qualified personnel.
- Adhere to all applicable local and national electrical codes.
- Do not operate the controller in environments exceeding its specified temperature and humidity ratings.

3. Product Overview

The 1756-L85E is a high-performance ControlLogix 5580 Controller, designed for complex industrial control systems. It features various indicators and ports for communication and status monitoring.

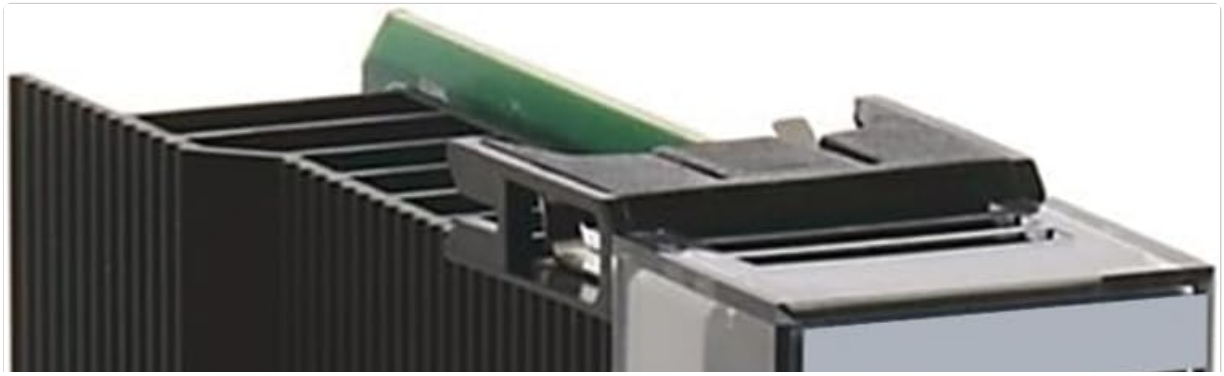



Figure 1: Front view of the CBBEXP 1756-L85E ControlLogix 5580 Controller. Visible features include status indicators (NET, LINK, RUN, FORCE, SD, OK), mode switch (RUN, REM, PROG), a USB port, and an Ethernet port. A "CAUTION! HOT!" label is also present.

Key Features:

- Advanced Programmable Logic Control capabilities.

- Integrated communication ports for network connectivity.
- Status indicators for quick operational assessment.
- Robust design for industrial environments.

4. Setup

4.1. Mounting

The controller is designed for rack mounting within a ControlLogix chassis. Ensure the chassis is securely mounted in a suitable industrial enclosure, providing adequate ventilation and protection from environmental factors.

4.2. Power Connection

Connect the controller to a stable 24 Volts DC power supply. Refer to the chassis documentation for specific power supply requirements and wiring diagrams. Verify correct polarity before applying power.

4.3. Communication Connections

- **Ethernet Port:** Use a standard Ethernet cable to connect the controller to your industrial network for programming, monitoring, and data exchange.
- **USB Port:** The USB port can be used for local programming and diagnostics. Connect a standard USB cable from your programming workstation to this port.

4.4. Initial Power-Up

After all connections are secure, apply power to the chassis. Observe the status indicators on the front panel. The controller will perform a self-test. Refer to the "Operating Instructions" section for indicator meanings.

5. Operating Instructions

5.1. Mode Switch

The controller features a three-position mode switch on its front panel:

- **RUN:** The controller executes the loaded program. Outputs are active.
- **REM (Remote):** The controller can be switched between RUN, PROGRAM, and TEST modes via programming software.
- **PROG (Program):** The controller stops executing the program. Outputs are de-energized. This mode is used for program download and editing.

5.2. Status Indicators

Monitor the LED indicators on the front panel for operational status:

- **NET:** Network status.
- **LINK:** Communication link status.
- **RUN:** Indicates the controller is in RUN mode.
- **FORCE:** Indicates I/O forcing is active.
- **SD:** Secure Digital card status (if applicable).
- **OK:** General controller status (green for normal operation, red for fault).

5.3. Programming

The 1756-L85E controller is programmed using compatible Rockwell Automation software (e.g., Studio 5000

Logix Designer). Refer to the software documentation for detailed programming instructions.

6. Maintenance

6.1. General Care

- Keep the controller and its environment clean and free from dust and debris.
- Ensure proper ventilation to prevent overheating.
- Regularly inspect all cables and connections for signs of wear or damage.

6.2. Cleaning

Before cleaning, disconnect power to the controller. Use a soft, dry, lint-free cloth to wipe the exterior. Do not use abrasive cleaners, solvents, or spray liquids directly onto the unit.

6.3. Environmental Considerations

Operate the controller within its specified environmental limits (temperature, humidity, vibration) to ensure longevity and reliable performance.

7. Troubleshooting

This section provides guidance for common issues. For more complex problems, contact technical support.

Problem	Possible Cause	Solution
Controller not powering on	No power supply, incorrect wiring, faulty power supply.	Verify 24V DC power supply connection and voltage. Check wiring for correct polarity.
"OK" indicator is red	Controller fault or error.	Check diagnostic messages via programming software. Cycle power if necessary.
No network communication	Incorrect Ethernet cable, network configuration issue, faulty port.	Verify Ethernet cable connection. Check network settings in programming software. Ensure NET and LINK indicators are active.
Controller is hot to touch	Overheating due to poor ventilation or excessive load.	Ensure adequate airflow around the controller. Reduce ambient temperature if possible. Note the "CAUTION! HOT!" label indicates normal operating heat, but excessive heat requires investigation.

8. Specifications

Feature	Detail
Model	1756-L85E
Type	Programmable Logic Control Product
Brand	CBBEXP
Manufacturer	CBBEXP

Feature	Detail
Item Model Number	1756-L85E-NEW
ASIN	B0CH5CN9VP
UPC	762668906895
Voltage	24 Volts (DC)
Material	Copper, lead
Display Type	LCD
Color	gray

9. Warranty and Support

9.1. Product Warranty

This CBBEXP 1756-L85E ControlLogix 5580 Controller comes with a**One-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

9.2. Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact the seller, Zhengbang Automation. They are committed to providing excellent customer service and support for this product.

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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.

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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.

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