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[MOELLER PS306-DC-EE Programmable Logic Controller User Manual](#)

## MOELLER PS306-DC-EE

# MOELLER PS306-DC-EE Programmable Logic Controller User Manual

Model: PS306-DC-EE | Brand: MOELLER

## INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the MOELLER PS306-DC-EE Programmable Logic Controller (PLC). Please read this manual thoroughly before using the device to ensure safe and efficient operation.

## PRODUCT OVERVIEW

The MOELLER PS306-DC-EE is a robust programmable logic controller designed for industrial automation applications. It features various input and output terminals, communication ports, and status indicators to facilitate control and monitoring of processes.



Figure 1: Front view of the MOELLER PS306-DC-EE PLC, showing input/output terminals, status LEDs, and communication ports.

## Key Components:

- **Input Terminals (I0-I15):** For connecting sensors and input devices.
- **Output Terminals (Q0-Q15):** For connecting actuators and output devices.
- **Status Indicators:** RUN, READY, NOT READY LEDs to show operational status.
- **Control Switches:** RUN/RESET switch for operational control.
- **RS485 Communication Port:** For connecting to SUCONET or PC.
- **Power Input:** Electrical power source connection.

## SETUP AND INSTALLATION

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### 1. Mounting:

Mount the PS306-DC-EE on a DIN rail within a control cabinet. Ensure adequate ventilation around the unit to prevent overheating.

### 2. Wiring:

Connect the power supply to the designated power input terminals. Wire input devices to the 'INPUT' terminals (I0-I15) and output devices to the 'OUTPUT' terminals (Q0-Q15). Refer to the wiring diagram for specific connections.

#### Power Supply Connection:

- Ensure the power source is an electrical type, as specified in the product's technical data.
- Connect the positive and negative terminals securely.

#### Input/Output Wiring:

- Use appropriate gauge wires for all connections.
- Ensure all connections are tight to prevent loose contacts.

### 3. Communication Setup:

The PS306-DC-EE features an RS485 port for communication. This port can be configured for SUCONET or PC communication. Select the appropriate mode using the internal switch or software settings.

## OPERATING INSTRUCTIONS

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### 1. Powering On:

Once all wiring is complete and verified, apply power to the unit. The 'READY' LED should illuminate, indicating the PLC is ready for operation.

### 2. Operating Modes:

- **RUN Mode:** The PLC executes the loaded program. The 'RUN' LED will be illuminated.
- **RESET Mode:** The PLC stops program execution and resets its internal state. The 'RESET' LED will be illuminated.
- **M-RESET RUN:** A manual reset and then transition to RUN mode.

Use the RUN/RESET switch on the front panel to toggle between these modes.

### 3. Program Loading:

Programs are typically loaded via the RS485 communication port from a PC using compatible programming software.

Refer to the software manual for detailed instructions on program development and transfer.

## MAINTENANCE

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The MOELLER PS306-DC-EE is designed for minimal maintenance. However, regular checks are recommended to ensure optimal performance and longevity.

- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Connection Checks:** Annually inspect all wiring connections for tightness and signs of corrosion.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates that may improve performance or address issues.

## TROUBLESHOOTING

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This section provides solutions to common issues you might encounter with the PS306-DC-EE PLC.

Problem	Possible Cause	Solution
PLC does not power on.	No power supply; Incorrect wiring; Faulty unit.	Check power connections; Verify wiring against diagram; Contact support if unit is faulty.
'NOT READY' LED is illuminated.	Internal error; No program loaded; Configuration issue.	Perform a reset; Load a valid program; Check communication settings.
Inputs/Outputs not responding.	Incorrect wiring; Program logic error; Faulty sensor/actuator.	Verify wiring; Debug program logic; Test external devices.

If the problem persists after attempting these solutions, please contact MOELLER technical support.

## SPECIFICATIONS

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**Manufacturer:** MOELLER

**Model Number:** PS306-DC-EE

**Part Number:** Not specified

**Power Source Type:** Electrical

**Included Components:** None specified

**ASIN:** B0CYC33ZBL

**First Available Date:** March 18, 2024

**Input Points:** 16 (I0-I15)

**Output Points:** 16 (Q0-Q15)

**Communication:** RS485 (SUCONET, PC)

## WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official MOELLER website or contact your local distributor. Keep your purchase receipt and product model number (PS306-DC-EE) readily available when seeking support.

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