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Lanlily DVP04AD-S

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Model: DVP04AD-S

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the Lanlily DVP04AD-S PLC Analog Input Module. The DVP04AD-S is designed to convert analog signals from sensors or other devices into digital data that can be processed by a Programmable Logic Controller (PLC). Please read this manual thoroughly before using the module to ensure correct and safe operation.

2. PRODUCT OVERVIEW

The Lanlily DVP04AD-S is a compact and robust analog input module. It features screw terminals for easy wiring and indicators for power and error status. The module is designed for integration into industrial automation systems.



Figure 2.1: The Lanlily DVP04AD-S PLC Analog Input Module, shown with its green terminal blocks and included wiring accessories. The module has 'POWER' and 'ERROR' indicator lights.



Figure 2.2: The packaging box for the DVP04AD-S Analog Module, displaying the model number, certifications (UL, CE), and manufacturing details.

3. SETUP AND INSTALLATION

Proper installation is crucial for the reliable operation of the DVP04AD-S module. Ensure all power is disconnected from the PLC system before proceeding with installation.

3.1 Mounting

- Mount the DVP04AD-S module securely on a DIN rail or appropriate mounting surface within the control cabinet.
- Ensure adequate ventilation around the module to prevent overheating.
- Avoid mounting near strong electromagnetic interference sources.

3.2 Wiring

1. **Power Connection:** Connect the module's power terminals to the appropriate power supply as specified in your PLC system documentation. Verify voltage and current requirements.
2. **Analog Input Connection:** Connect your analog sensors or signal sources to the input terminals. Refer to the specific wiring diagram for your application, typically found in the main PLC system manual. Ensure correct polarity for voltage inputs and proper loop connections for current inputs.
3. **Communication Connection:** Connect the module to the PLC CPU via the designated communication interface (e.g., bus connector).
4. **Grounding:** Ensure proper grounding of the module and associated wiring to minimize noise and ensure safety.

***Important:** Always consult the detailed wiring diagrams provided with your specific PLC system and the DVP04AD-S module for precise connection instructions. Incorrect wiring can damage the module or other system components.*

4. OPERATING INSTRUCTIONS

Once physically installed and wired, the DVP04AD-S module requires configuration through the PLC programming software.

4.1 Initial Power-Up

- After completing all wiring, apply power to the PLC system.
- Observe the **POWER** indicator on the DVP04AD-S module. It should illuminate, indicating proper power supply.
- If the **ERROR** indicator illuminates, refer to the Troubleshooting section.

4.2 Software Configuration

1. Launch the PLC programming software (e.g., Delta ISPSOFT or WPLSOFT for Delta PLCs).
2. Add the DVP04AD-S module to your PLC project configuration.
3. Configure the analog input channels:
 - Select input type (e.g., voltage 0-10V, current 4-20mA).
 - Set scaling parameters to convert raw digital values to engineering units (e.g., temperature, pressure).
 - Define any necessary filters or averaging settings.
4. Download the updated PLC program to the CPU.
5. Monitor the analog input values in the PLC software to verify correct readings from your sensors.

***Note:** Detailed software configuration steps are specific to the PLC model and programming software being used. Refer to the respective software manuals for comprehensive instructions.*

5. MAINTENANCE

The DVP04AD-S module is designed for minimal maintenance. However, periodic checks can help ensure long-term reliability.

- **Visual Inspection:** Periodically inspect the module for any signs of physical damage, loose connections, or dust accumulation.
- **Cleaning:** If necessary, gently clean the module's exterior with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure power is off before cleaning.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature failure.
- **Connection Integrity:** Occasionally check that all wiring connections to the terminal blocks are secure.

6. TROUBLESHOOTING

This section provides solutions to common issues encountered with the DVP04AD-S module.

Problem	Possible Cause	Solution
POWER indicator is off.	No power supply or incorrect wiring.	Verify power connections and ensure the power supply is active and within specifications.
ERROR indicator is on.	Module fault, communication error, or configuration issue.	Check PLC diagnostic logs. Verify module configuration in software. Re-seat the module. If error persists, contact support.
Incorrect analog readings.	Sensor malfunction, incorrect wiring, or improper software scaling.	Verify sensor operation. Check analog input wiring for correct polarity and connections. Review software scaling parameters.
Module not recognized by PLC.	Communication cable issue or incorrect module address/slot.	Ensure communication cable is securely connected. Verify module address/slot configuration in PLC software.

7. SPECIFICATIONS

Model	DVP04AD-S
Type	PLC Analog Input Module
Brand	Lanlily
Item Weight	0.035 ounces
ASIN	B0C78JY7GR
Manufacturer	Lanlily

8. WARRANTY INFORMATION

The Lanlily DVP04AD-S PLC Analog Input Module comes with a **one-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, unauthorized modification, or external factors such as power surges or environmental conditions outside the specified operating range.

For warranty claims or service, please retain your proof of purchase and contact Lanlily customer support.

9. CUSTOMER SUPPORT

If you encounter any issues not covered in the troubleshooting section, or require further assistance with your Lanlily DVP04AD-S module, please contact our customer support team.

- **Manufacturer:** Lanlily
- **Online Inquiry:** Refer to the seller's contact information on the platform where the product was purchased.
- Please have your model number (DVP04AD-S) and purchase details ready when contacting support.