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> [DIN Rail Power Supply CP10.241-S2 User Manual](#)

Arionyx CP10.241-S2

DIN Rail Power Supply CP10.241-S2 User Manual

Model: CP10.241-S2 | Brand: Arionyx

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1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Arionyx CP10.241-S2 DIN Rail Power Supply. This device is designed to convert AC input voltage into a stable 24V DC output, suitable for various industrial and automation applications. Its compact design and high reliability make it an ideal choice for systems requiring a robust and efficient power source.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power before installing, wiring, or servicing the unit.
- Ensure proper grounding to prevent electrical hazards.
- Do not operate the power supply in wet or damp conditions.
- Verify input voltage and current ratings match the power supply specifications before connection.
- Do not block ventilation openings. Adequate airflow is crucial for proper operation and to prevent overheating.
- Use appropriate wire gauges for all connections to prevent overheating and ensure stable operation.

3. SETUP AND INSTALLATION

3.1 Mounting

The CP10.241-S2 power supply is designed for mounting on a standard 35mm DIN rail. Ensure the rail is securely fastened and capable of supporting the weight of the power supply and connected components.

1. Hook the top edge of the power supply onto the DIN rail.
2. Push the bottom edge firmly until it clicks into place.
3. Verify the power supply is securely attached and does not wobble.

3.2 Wiring Connections

Refer to the diagram below for correct wiring of the input and output terminals. Ensure all connections are tight and secure to prevent loose contacts and potential hazards.



Figure 1: Front view of the CP10.241-S2 DIN Rail Power Supply showing input and output terminals, and status indicator.

This image displays the front panel of the Arionyx CP10.241-S2 DIN Rail Power Supply. At the top, there are output terminals labeled "++" for DC 24V 10A. Below these, a "DC ok" LED indicator and additional terminals labeled "13" and "14" are visible. The lower section shows input terminals labeled "AC 100-240V", "N", "L", and a ground symbol. The model name "CP10.241-S2 Power Supply" and "DIMENSION" branding are also present.

Input Connections (AC 100-240V)

- **L (Line):** Connect the live AC wire to the 'L' terminal.
- **N (Neutral):** Connect the neutral AC wire to the 'N' terminal.
- **⊥ (Ground):** Connect the protective earth ground wire to the ground terminal.

Output Connections (DC 24V, 10A)

- **+ (Positive):** Connect the positive DC load wire to one of the '+' terminals.
- **- (Negative):** Connect the negative DC load wire to one of the '-' terminals.
- Multiple '+' and '-' terminals are provided for convenient parallel connections to multiple loads or for using larger gauge wires.

4. OPERATING INSTRUCTIONS

4.1 Powering On

Once all connections are securely made and verified, apply AC power to the input terminals. The power supply will automatically begin operation.

4.2 Status Indicator

The "DC ok" LED indicator provides visual feedback on the power supply's operational status:

- **Green LED On:** Indicates that the output voltage is within the specified range (24V DC). The power supply is operating normally.
- **Green LED Off:** Indicates that there is no output voltage, or the output voltage is outside the specified range. This could be due to no input power, a fault condition, or an overload.

4.3 Output Adjustment (if applicable)

The CP10.241-S2 provides a fixed 24V DC output. There is no user-adjustable output voltage control on this model.

5. MAINTENANCE

The Arionyx CP10.241-S2 DIN Rail Power Supply is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance and longevity.

- **Cleaning:** Periodically clean the exterior of the power supply to remove dust and debris, especially from ventilation openings. Use a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Connections:** Annually inspect all wiring connections to ensure they remain tight and free from corrosion. Loose connections can lead to overheating or intermittent operation.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges. Avoid exposing the unit to excessive vibration or corrosive atmospheres.
- **Ventilation:** Confirm that the ventilation slots are not obstructed, allowing for proper heat dissipation.

CAUTION: Do not attempt to open or repair the power supply. There are no user-serviceable parts inside. Opening the unit will void the warranty.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your CP10.241-S2 power supply.

Problem	Possible Cause	Solution
No output voltage / "DC ok" LED is off	<ul style="list-style-type: none">No AC input powerIncorrect wiringOverload or short circuit on outputInternal fault	<ul style="list-style-type: none">Check AC input power source and connections.Verify input and output wiring according to Section 3.2.Disconnect load and check for short circuits. Reduce load if overloaded.If problem persists after checking above, the unit may be faulty. Contact support.
Output voltage is unstable or low	<ul style="list-style-type: none">Overload conditionPoor input power qualityLoose connections	<ul style="list-style-type: none">Reduce the load connected to the power supply.Ensure stable AC input voltage.Check all wiring connections for tightness.
Unit is excessively hot	<ul style="list-style-type: none">Insufficient ventilationOverload conditionHigh ambient temperature	<ul style="list-style-type: none">Ensure adequate clearance around the unit for airflow.Reduce the load.Ensure ambient temperature is within specified operating range.

7. SPECIFICATIONS

Parameter	Value
Model	CP10.241-S2
Brand	Arionyx
Input Voltage	AC 100-240V
Output Voltage	DC 24V
Output Current	10A
Output Power	240W
Mounting Type	DIN Rail
Dimensions (Package)	1.18 x 0.79 x 0.39 inches
Item Weight	6.61 pounds (approx. 3000 grams)

Parameter	Value
First Available Date	December 3, 2024

8. WARRANTY & SUPPORT

8.1 Warranty Information

Arionyx products are manufactured to high quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation or contact your retailer for specific warranty terms and duration.

The warranty does not cover damage caused by improper installation, misuse, unauthorized modifications, or operation outside the specified environmental and electrical limits.

8.2 Technical Support

For technical assistance, troubleshooting, or warranty claims, please contact your point of purchase or the official Arionyx support channels. When contacting support, please have your product model number (CP10.241-S2) and purchase details ready.

For general inquiries, you may visit the Arionyx brand page on Amazon: [Arionyx Store on Amazon](#)