

Altronix PD4

Altronix PD4 Power Distribution Module User Manual

Model: PD4

1. INTRODUCTION

The Altronix PD4 is a power distribution module designed to efficiently manage power delivery. It converts a single AC or DC input into four (4) individually fuse-protected outputs. This module is suitable for various low-voltage applications requiring reliable power distribution and circuit protection.

2. SAFETY INFORMATION

Please read and understand all instructions before installing or operating the Altronix PD4. Failure to follow these instructions may result in injury or damage to the device.

- **Electrical Hazard:** Disconnect all power sources before installation or servicing.
- **Proper Fusing:** Always use fuses of the specified type and rating. Never bypass a fuse.
- **Ventilation:** Ensure adequate ventilation around the module to prevent overheating.
- **Qualified Personnel:** Installation and servicing should be performed by qualified personnel only.
- **Indoor Use:** This device is intended for indoor use in a controlled environment.

3. FEATURES

- Four (4) individually fuse-protected outputs.
- Supports 12-24VDC input voltage.
- Total current output up to 10A.
- LED indicators for power status.
- Compact design for easy integration.

4. SPECIFICATIONS

Specification	Value
Input Voltage	12-24VDC

Specification	Value
Total Output Current	10A (maximum)
Number of Outputs	4 (individually fused)
Product Dimensions	3.4 x 1.75 x 5.9 inches
Item Weight	1 pound
Model Number	PD4
Manufacturer	Altronix Corporation

5. SETUP AND INSTALLATION

Before proceeding, ensure all power is disconnected from the input source.

5.1. Mounting

The PD4 module can be mounted using screws through the designated mounting holes on the board. Choose a secure, dry location with adequate ventilation.

5.2. Wiring Connections

- Input Power:** Connect the 12-24VDC power source to the input terminals labeled 'MAIN FUSE' or similar input terminals. Observe correct polarity (positive to positive, negative to negative).
- Output Devices:** Connect your devices requiring power to the four (4) output terminal pairs (1P/1N, 2P/2N, 3P/3N, 4P/4N). Each output is individually protected by a fuse. Ensure the total current draw for all connected devices does not exceed 10A.
- Fuse Installation:** Insert the appropriate fuses into the designated fuse holders for each output. Refer to the markings on the board for recommended fuse ratings.

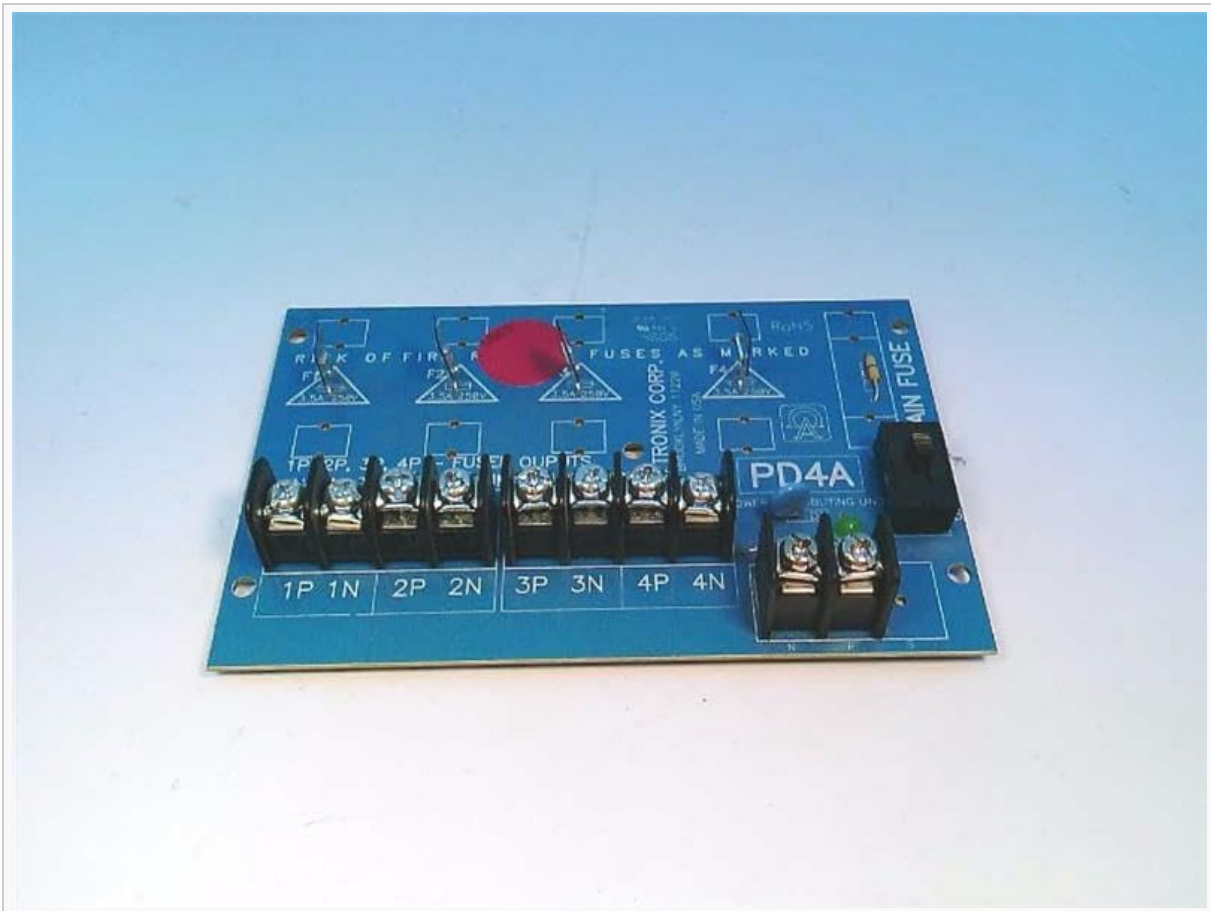


Figure 1: Altronix PD4 Power Distribution Module board, top view. Shows the main fuse holder, four sets of output terminals, and fuse locations for each output.



Figure 2: Altronix PD4 Power Distribution Module board, angled view. Highlights the terminal blocks for input and output connections, along with the fuse holders.

5.3. Power Up

Once all connections are secure and fuses are in place, apply power to the input terminals. The power indicator LED (if present) on the board should illuminate, indicating proper power input.

6. OPERATING INSTRUCTIONS

The Altronix PD4 operates automatically once power is supplied. It distributes the input power to the four connected output devices, with each output protected by its respective fuse. There are no user-adjustable settings or controls on the module itself beyond the initial wiring and fuse selection.

- Ensure the input voltage is within the specified 12-24VDC range.
- Monitor the power indicator LED to confirm the module is receiving power.
- If an output device is not receiving power, check its corresponding fuse.

7. MAINTENANCE

The Altronix PD4 requires minimal maintenance. Regular checks can help ensure continued reliable operation.

- **Fuse Inspection:** Periodically inspect fuses for any signs of damage or blowing. Replace blown fuses with the correct type and rating.
- **Terminal Connections:** Ensure all terminal connections remain tight and secure. Loose connections can lead to intermittent power or overheating.
- **Cleaning:** Keep the module free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Environmental Check:** Verify that the operating environment remains within specified temperature and humidity ranges.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to any output, power LED off.	No input power, incorrect input voltage, main fuse blown.	Check input power source. Verify input voltage. Replace main fuse if blown (ensure correct rating).
No power to a specific output, other outputs working.	Blown fuse for that specific output, faulty wiring to the device.	Identify and replace the blown output fuse. Check wiring to the affected device.
Fuses blow frequently.	Overcurrent draw from connected device, short circuit in wiring or device.	Reduce load on the output. Inspect wiring and connected device for short circuits. Ensure correct fuse rating.
Module feels excessively hot.	Overload, insufficient ventilation, loose connections.	Reduce total load. Ensure adequate airflow. Tighten all terminal connections.

9. WARRANTY AND SUPPORT

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

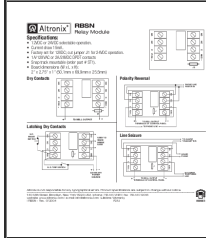
Altronix Corporation

Website: www.altronix.com

Contact information can typically be found on their website.

Related Documents - PD4

<p>ALTV1224DC Series CCTV Power Supplies</p> <p>Models Include:</p> <table border="0"><tr><td>ALTV1224DC 12VDC @ 2.0A (40W) - 16 PTC Protected Outputs</td><td>ALTV1224DC2CB 12VDC @ 2.0A (40W) - 16 PTC Protected Outputs</td></tr><tr><td>ALTV1224DC1 12VDC @ 1.0A (20W) - 8 PTC Protected Outputs</td><td>ALTV1224DC1CB 12VDC @ 1.0A (20W) - 8 PTC Protected Outputs</td></tr><tr><td>ALTV1224DC2 24VDC @ 1.0A (24W) - 8 PTC Protected Outputs</td><td>ALTV1224DC2CB 24VDC @ 1.0A (24W) - 8 PTC Protected Outputs</td></tr></table> <p>Installation Guide</p> <p>CE</p> <p>Altronix</p> <p>No. 40000 Model/Category: CCTV Power Supplies Address: _____ Page 1 of 1</p>	ALTV1224DC 12VDC @ 2.0A (40W) - 16 PTC Protected Outputs	ALTV1224DC2CB 12VDC @ 2.0A (40W) - 16 PTC Protected Outputs	ALTV1224DC1 12VDC @ 1.0A (20W) - 8 PTC Protected Outputs	ALTV1224DC1CB 12VDC @ 1.0A (20W) - 8 PTC Protected Outputs	ALTV1224DC2 24VDC @ 1.0A (24W) - 8 PTC Protected Outputs	ALTV1224DC2CB 24VDC @ 1.0A (24W) - 8 PTC Protected Outputs	<p>Altronix ALTV1224DC Series CCTV Power Supplies Installation Guide</p> <p>Comprehensive installation guide for Altronix ALTV1224DC Series CCTV Power Supplies. Details models, specifications, features, terminal identification, safety warnings, and enclosure dimensions for reliable CCTV power distribution.</p>
ALTV1224DC 12VDC @ 2.0A (40W) - 16 PTC Protected Outputs	ALTV1224DC2CB 12VDC @ 2.0A (40W) - 16 PTC Protected Outputs						
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<p>ACMS12 Series Sub-Assembly Access Power Controllers</p> <p>Models Include:</p> <p>ACMS12 - Terminal (12) PTC Protected Outputs</p> <p>ACMS12CB - Terminal (12) PTC Protected Outputs</p> <p>Installation Guide</p> <p>Altronix</p> <p>No. 40000 Model/Category: _____ Address: _____ Page 1 of 1</p>	<p>Altronix ACMS12 Series Access Power Controllers Installation Guide</p> <p>Installation guide for Altronix ACMS12 and ACMS12CB series sub-assembly access power controllers. Details specifications, wiring, and application diagrams for secure access control systems.</p>						
<p>ALTV244UL Series CCTV Power Supplies</p> <p>Models Include:</p> <table border="0"><tr><td>ALTV244UL 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs</td><td>ALTV244ULCB 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs</td></tr><tr><td>ALTV244ULX 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs</td><td></td></tr><tr><td>ALTV244175UL 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs</td><td>ALTV244175ULCB 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs</td></tr></table> <p>Installation Guide</p> <p>CE</p> <p>Altronix</p> <p>No. 40000 Model/Category: _____ Address: _____ Page 1 of 1</p>	ALTV244UL 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs	ALTV244ULCB 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs	ALTV244ULX 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs		ALTV244175UL 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs	ALTV244175ULCB 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs	<p>Altronix ALTV244UL Series CCTV Power Supplies Installation Guide</p> <p>Installation guide for Altronix ALTV244UL series CCTV power supplies, detailing models, specifications, installation instructions, and enclosure dimensions. Features 24VAC/28VAC outputs with fuse or PTC protection for CCTV cameras and video accessories.</p>
ALTV244UL 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs	ALTV244ULCB 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs						
ALTV244ULX 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs							
ALTV244175UL 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs	ALTV244175ULCB 24VDC @ 1.0A (24W) - Fuse (5) PTC Protected Outputs						
<p>AL125ULB Two (2) Output Switching Power Supply/Charger</p> <p>Features:</p> <ul style="list-style-type: none">• 12VDC/24VDC outputs• PTC protected outputs• Battery backup• Supervision <p>Altronix</p> <p>No. 40000 Model/Category: _____ Address: _____ Page 1 of 1</p>	<p>Altronix AL125ULB Two Output Switching Power Supply/Charger Datasheet</p> <p>Technical specifications and overview for the Altronix AL125ULB, a two-output switching power supply and charger with PTC protected 12VDC/24VDC outputs, battery backup, and supervision features.</p>						
<p>R1224DC16CBV Rack Mount Power Supply</p> <p>Installation Guide</p> <p>CE</p> <p>Altronix</p> <p>No. 40000 Model/Category: _____ Address: _____ Page 1 of 1</p>	<p>Altronix R1224DC16CBV Rack Mount Power Supply Installation Guide</p> <p>Installation guide for the Altronix R1224DC16CBV Rack Mount Power Supply, detailing its specifications, features, and step-by-step installation procedures for rack or shelf mounting. Provides 12VDC or 24VDC output with 16 PTC protected outputs.</p>						



[Altronix RBSN Relay Module Specifications and Wiring](#)

Detailed specifications and wiring diagrams for the Altronix RBSN Relay Module, including operation, contacts, and mounting.