

Atlas Sound PSR-206

AtlasIED PSR-206 Zone Page Powered Relay Pack User Manual

Model: PSR-206
Brand: Atlas Sound

1. INTRODUCTION

The AtlasIED PSR-206 is a zone page powered relay pack designed to provide six independent relay closures for various audio and control applications. This manual provides essential information for proper installation, operation, and maintenance of the device, ensuring reliable performance and system integration.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Do not open the unit. Refer all servicing to qualified personnel.

- Always disconnect power before performing any installation, maintenance, or troubleshooting procedures.
- Ensure proper grounding of the unit to prevent electrical hazards.
- Adhere to all local and national electrical codes during installation.
- Do not expose the unit to moisture or extreme temperatures.
- Use only specified fuse types and ratings for replacement.

3. PRODUCT OVERVIEW

The PSR-206 is a robust relay pack featuring six independent relays, powered by a 117 VAC input and providing a 24 VDC output. It is designed for integration into paging and control systems.



Figure 1: Top view of the AtlasIED PSR-206 showing power input, fuse, amplifier output, bus connections, 24 VDC output, and six external switch relay terminals.

Key Features:

- Six independent relay closures.
- 117 VAC input power.
- 24 VDC at 1/2 AMP output for external devices.
- Integrated 1 AMP fuse for circuit protection.
- Clearly labeled screw terminals for easy wiring.

4. SPECIFICATIONS

Feature	Specification
Model Number	PSR-206
Input Voltage	117 VAC
Output Voltage/Current	24 VDC at 1/2 AMP

Feature	Specification
Number of Relays	6
Fuse Rating	1 AMP
Item Weight	6 pounds
Package Dimensions	19 x 6 x 5 inches
Manufacturer	Atlas Sound
Date First Available	December 8, 2008

5. SETUP AND INSTALLATION

Careful installation is crucial for optimal performance. Ensure all power is disconnected before proceeding.

5.1 Mounting

The PSR-206 can be mounted to a flat surface using appropriate screws through the mounting tabs on the unit's chassis.

5.2 Wiring Connections

- Power Input (117 VAC):** Connect the unit's power cord to a standard 117 VAC power outlet. The unit is protected by a 1 AMP fuse, accessible on the side.
- 24 VDC Output:** The terminals labeled '24 VDC' (+ and -) provide a regulated 24 VDC at 1/2 AMP for powering compatible external devices. Observe polarity.
- External Switches (Relay Control):** The terminals labeled 'EXTERNAL SWITCHES' (1-6) along with 'COM' (Common) are used to control the six independent relays. Connect your external control switches between the 'COM' terminal and the desired relay terminal (1 through 6). When a switch is closed, the corresponding relay will activate.
- AMP OUT:** These terminals are typically used for connecting to an amplifier's input, often for muting or other control functions during paging. Consult your amplifier's manual for specific wiring.
- OFF BUS:** These terminals are for specific system bus connections, often used to signal an 'off-hook' or busy status. Refer to your overall system design for proper integration.

6. OPERATING INSTRUCTIONS

Once properly installed and wired, the PSR-206 operates automatically based on the signals received from connected external switches.

- Relay Activation:** When an external switch connected to one of the 'EXTERNAL SWITCHES' terminals (1-6) and 'COM' is closed, the corresponding internal relay will activate. This closure can be used to trigger various functions in your audio or control system, such as zone paging, muting, or activating external devices.
- 24 VDC Power Supply:** The 24 VDC output is continuously available when the unit is powered, providing a stable power source for low-power auxiliary equipment.

7. MAINTENANCE

The PSR-206 is designed for reliable, long-term operation with minimal maintenance.

- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Fuse Replacement:** If the unit loses power, check the 1 AMP fuse located on the side of the unit. Disconnect power before replacing the fuse. Always replace with a fuse of the identical type and rating (1 AMP).
- **Connection Inspection:** Annually inspect all wiring connections to ensure they are secure and free from corrosion.

8. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions.

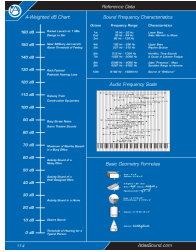
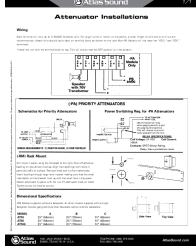
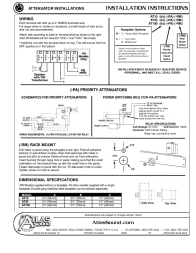
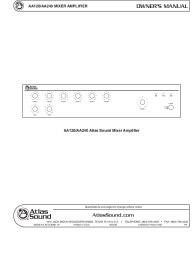
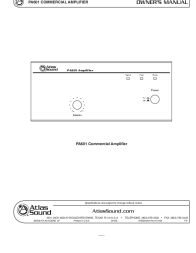
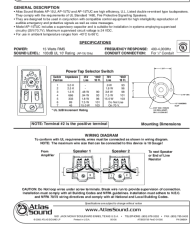
Problem	Possible Cause	Solution
Unit has no power / No indicator lights	No 117 VAC input; Blown 1 AMP fuse	Verify power outlet functionality. Check and replace 1 AMP fuse if necessary (ensure power is disconnected first).
Relay not activating when external switch is closed	Incorrect wiring; Faulty external switch; Damaged relay	Check wiring between external switch and 'COM'/'EXTERNAL SWITCHES' terminals. Test the external switch for functionality. If issue persists, professional service may be required.
No 24 VDC output	Internal fault; Overload on 24 VDC output	Ensure no short circuits or excessive load on the 24 VDC output. If the unit has power but no 24 VDC output, professional service is recommended.

9. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or service inquiries, please contact Atlas Sound directly. Refer to your original purchase documentation or the official Atlas Sound website for the most current contact details and warranty terms.

Manufacturer Address: 1501 Jack McKay Blvd, Ennis, TX 758HG *(Information derived from product labeling)*

It is recommended to register your product with Atlas Sound to ensure you receive updates and support.

	<p>Atlas Sound Reference Data and Product Catalog</p> <p>Comprehensive reference data including dB charts, frequency scales, electrical formulas, and a detailed rack conversion guide from Atlas Sound, alongside product information and team profiles.</p>
	<p>Atlas Sound Attenuator Installations Guide</p> <p>Comprehensive guide to installing Atlas Sound attenuators, covering wiring, schematics, power switching, rack mounting, and dimensional specifications for models AT10, AT35, and AT100.</p>
	<p>Atlas Sound Attenuator Installation Instructions</p> <p>Comprehensive installation guide for Atlas Sound AT10, AT35, and AT100 attenuators, covering wiring, faceplate options, rack mounting, and dimensional specifications.</p>
	<p>Atlas Sound AA120/AA240 Mixer Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the Atlas Sound AA120 and AA240 mixer amplifiers, detailing features, operation, safety, and specifications for commercial audio applications.</p>
	<p>Atlas Sound PA601 Commercial Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the Atlas Sound PA601 Commercial Amplifier, covering installation, operation, safety, features, specifications, and warranty.</p>
	<p>Atlas Sound AP-15U, AP-15TU, AP-15TUC Installation Instructions</p> <p>Installation guide for Atlas Sound AP-15U, AP-15TU, and AP-15TUC high efficiency, U.L. Listed double re-entrant loudspeakers. Includes specifications, power tap selector, mounting dimensions, and wiring diagrams for fire protective signaling systems.</p>