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Lowell RPC-15-S

Lowell RPC-15-S Remote Power Control User Manual

Model: RPC-15-S

Introduction

This user manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of the Lowell RPC-15-S 15A Low Voltage Remote Power Control with Surge Protection. Please read this manual thoroughly before using the product and retain it for future reference.

Product Overview

The Lowell RPC-15-S is a robust remote power control unit designed to manage AC power distribution to equipment from a remote location using a low voltage dry contact closure. It features built-in surge protection and is ideal for commercial, entertainment, government, education, and house-of-worship venues.

Figure 1: Top view of the Lowell RPC-15-S showing the power cord, duplex outlet, and control terminal block.

Features

- **Remote Power Control:** Enables AC power control via low voltage dry contact closure.
- **Surge Protection:** Integrated surge protection for connected equipment.
- **Compact Design:** Durable steel chassis with a black powder epoxy finish.
- **Power Output:** One 15A duplex outlet.
- **Connectivity:** Terminates with a 6-foot cord and NEMA 5-15P plug.
- **Safety Certified:** ETL Listed (UL 60065) for use in the U.S.A. and Canada.

Figure 2: Top-down view of the RPC-15-S, illustrating the duplex outlet and the low-voltage control terminal block.

Safety Information

Always adhere to the following safety guidelines to prevent injury or damage to the unit and connected equipment:

- Do not open the chassis. There are no user-serviceable parts inside.
- Ensure the power source matches the unit's voltage requirements (125 Volts AC).
- Do not exceed the maximum input current of 15 Amps.
- Install in a dry location, away from moisture and extreme temperatures.
- Ensure proper grounding for all connected equipment.
- Disconnect power before making any connections or performing maintenance.

Setup

1. **Mounting:** The RPC-15-S features mounting tabs for secure installation. Choose a suitable location that allows for proper ventilation and access to outlets and control wiring.
2. **Power Connection:** Plug the attached 6-foot NEMA 5-15P power cord into a standard 125V AC, 15A wall outlet.
3. **Equipment Connection:** Plug the equipment you wish to control into the duplex outlet on the RPC-15-S. Ensure the total current draw of connected equipment does not exceed 15 Amps.
4. **Low Voltage Control Wiring:** Connect your low voltage switch or sequential control device to the terminal block on the RPC-15-S.
    - Connect the control signal wire to the terminal labeled "Switch".
    - Connect the common wire to the terminal labeled "Common".
    - The unit provides a +24VDC output (250mA max) for powering compatible control devices, if needed.

Figure 3: Detailed view of the RPC-15-S terminal block, showing connections for switch, common, and +24VDC output, along with power and activated indicators.

Operating Instructions

The RPC-15-S operates by receiving a dry contact closure signal from an external control device.

1. **Power Indicator:** Once the unit is plugged into an AC outlet, the "Power" LED indicator will illuminate, indicating the unit is receiving power.
2. **Surge Protection Indicator:** On '-S' models, the "Surge Protection Active" LED will illuminate when surge protection is functional. If this light is off, the surge protection may be compromised, and the unit should be inspected.
3. **Activation:** When the external control device provides a dry contact closure across the "Switch" and "Common" terminals, the RPC-15-S will activate the duplex outlet, supplying power to connected equipment. The "Activated" LED indicator will illuminate.
4. **Deactivation:** When the dry contact closure is opened, the RPC-15-S will deactivate the duplex outlet, cutting power to connected equipment. The "Activated" LED indicator will turn off.

Figure 4: Side view of the RPC-15-S, demonstrating its compact form factor and the robust power cord connection.

Maintenance

The Lowell RPC-15-S requires minimal maintenance. Follow these guidelines to ensure longevity:

- Keep the unit clean and free of dust. Use a soft, dry cloth for cleaning.
- Do not use liquid cleaners or aerosols.
- Regularly inspect the power cord and connections for any signs of damage.
- Ensure proper ventilation around the unit.
- If the "Surge Protection Active" indicator light on '-S' models is off, the surge protection may have been compromised. Contact Lowell Manufacturing for service.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power to connected equipment, "Power" LED is off.	Unit not plugged in, wall outlet no power, or internal fuse blown.	Ensure power cord is securely plugged into a live outlet. Test the wall outlet with another device. If still no power, contact Lowell Manufacturing support.
No power to connected equipment, "Power" LED is on, "Activated" LED is off.	No control signal, faulty control wiring, or external control device issue.	Verify the external control device is functioning correctly. Check the low voltage wiring connections to the "Switch" and "Common" terminals. Ensure the control device is providing a proper dry contact closure.
"Surge Protection Active" LED is off (on -S models).	Surge protection component has been compromised.	The unit may still pass power, but surge protection is no longer active. Contact Lowell Manufacturing for repair or replacement.

Specifications

Attribute	Detail
Model Number	RPC-15-S
Brand	Lowell
Input Voltage	125 Volts AC
Input Current	15 Amps
Outlets	1 Duplex Outlet
Power Cord	6-ft. cord with NEMA 5-15P plug
Control Type	Low Voltage Dry Contact Closure
DC Output (Control)	+24VDC, 250mA Max
Dimensions (L x W x H)	9.5 x 9.3 x 4.3 inches
Weight	5.9 ounces
Color	Black
Certifications	ETL Listed (UL 60065) in U.S.A. and Canada

Warranty and Support

The Lowell RPC-15-S is covered by a **Lowell Manufacturing 1 Year Limited Warranty**.
For technical support, warranty claims, or service inquiries, please contact Lowell Manufacturing directly. Refer to their official website or product packaging for the most current contact information.

Manufacturer: Lowell Manufacturing

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