

rPP20 Relay Pack

POWER/RELAY PACK FAMILY INSTRUCTIONS



SPECIFICATIONS (rPP20)

Electrical Specifications	Input Ratings	120-277VAC , 120-480VAC (UVOLT)
	Maximum Load	20A general purpose, tungsten and standard ballast; 16A electronic ballast
	Dimming Load	Sinks 150mA; 0-10VDC dimmable ballasts or LED drivers; "D" 0-10V leads Class 1, "DS" 0-10V leads Class 2
	Minimum Load	None
	Class Rating	0-10V Dimming can be wired Class 1 or 2
Mechanical	Mounting	1/2" Knockout (7/8" hole)
	Connection Type	Line and Low Voltage Leads
Environmental	Warrantied Operating Temperature	-10°C to 60°C up to 5 amps; -10°C to 50°C up to 20 amps
	Standards/ Ratings	RoHS, UL 916, UL 924 (optional), FCC / IC / IFETEL

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2)

this device must accept any interference received, including interference that may

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible

que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su

Contains FCC ID: 2ADCB-RMODIT or 2ADCB-RMODIT3 Contains IC: 6715C-RMODIT or 6715C-RMODIT3 IFT #: RCPACRM18-1879 or RCPNLNL20-2057 Acuity Brands Lighting Inc. RMODIT or RMODIT3

In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the radiator shall not be less than 20cm during normal operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or relevision reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

cause undesired operation

operación no deseada.

1. Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT SAFEGUARDS

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED INCLUDING THE FOLLOWING:

- DO NOT MOUNT NEAR GAS OR ELECTRIC HEATERS.
- EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT HEIGHTS WHERE IT WILL NOT READILY BE SUBJECTED TO TAMPERING BY UNAUTHORIZED PERSONNEL.
- THE USE OF ACCESSORY EQUIPMENT NOT RECOMMENDED BY THE MANUFACTURER MAY CAUSE AN UNSAFE CONDITION.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS! SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

AcuityBrands.

Expanding the boundaries of lighting"

US LISTED

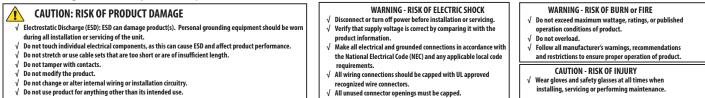
Full warranty

5-year limited warranty. Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx Note: Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

• To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions

- included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- · Installation and service should be performed by a qualified licensed electrician.
- Maintenance should be performed by qualified person(s) familiar with the products' construction & operation & any hazards involved. Regular maintenance programs recommended.
 To be installed to a circuit with overvoltage control to Overvoltage category Cat.III or less, minimum suppression rating 6.0 kV for a 600 V ac rms system voltage
- DO NOT INSTALL DAMAGED PRODUCT! This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.



WARRANTY



rPP20 Relay Pack

FAMILY INSTRUCTIONS



OVERVIEW

nLight AIR **rPP/rPP20** is a device that provides on/off switching and dimming for light fixtures. It is suitable for control of commercial and industrial light fixtures in indoor environments. When installed as part of an nLight AIR lighting control system, the **rPP/rPP20** will respond to wireless commands from other devices, to be programmed during startup.

INSTALLATION INSTRUCTIONS

REQUIRED TOOLS & SUPPLIES

- Electical Pliers
- Screwdriver
- Wire nuts
- Electrical box
- 2mm Precision Slotted Screwdriver, used for 24V terminals only

INSTALLATION STEPS

- 1. Turn power off at circuit breaker.
- 2. Install electrical box in accordance with state, local and national electrical codes and requirements.
- 3. Remove knock-out from side of electrical box.
- 4. Remove retaining nut and washer from power pack mounting nipple. NOTE: Standard device includes a wireless antenna internal to the device. This restricts it from being installed inside a metal enclosure. For metal enclosure applications, use the CP (Chicago Plenum) model with an external antenna.
- 5. Feed Class 1* wires and mounting nipple through knockout hole.
- 6. Install washer and thread retaining nut onto nipple, and hand-tighten to wall of electrical box, then apply additional quarter-turn tightening with pliers.
- Using wire nuts, connect line and low voltage wires as shown in the applicable wiring diagram in accordance to state, local and national codes and requirements.
- "24V" models only: Connect +/- DC power leads from nLight AIR sensor(s) to 24VDC terminal block on side of rPP enclosure, if needed. See diagrams below for additional details.
- For Chicago Plenum models only: Connect the antenna with the gasket to the inside of the sealed box, with the retaining nut on the outside of the box, as illustrated.
- 10. Install electical box cover plate before restoring power.

*DS option provides Class 2 low voltage dimming wires on side of enclosure opposite from chase nipple. *For Chicago Plenum option, see step 9.

Chicago Plenum Device

Following power up, the relay shall close to energize the load. The dimming output shall be at 100% light output. The device shall remain in this state until programmed with Clairity Pro mobile application. See Clairity Pro User Guide for additional programming information.

For Emergency Variant ER

INITIAL OPERATION

The RPP/RPP20 ER version is a UL924 listed device that is powered on the Emergency circuit and provides full light output (at user-defined high-trim level) in absense of AC voltage on Normal Power sense leads. Normal operation of the control device is restored when AC line voltage is restored to the normal power sensing leads.

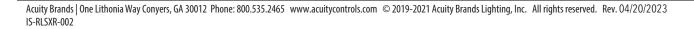
TROUBLESHOOTING TIPS

Device cannot be viewed in Clairity Pro

- 1. Press user button for specified time to reset the device to place the device in Maintenance Mode
- 2. Once the user-button LED confirms that the RP20 is in Maintenance Mode, open the Clairity Pro application and search for the device in Clairity Pro.
- a. If you still cannot see the device in Clairity Pro, contact Technical Support for additional assistance; device may need to be replaced.

3. Once the device is identifiable Clairity Pro, attempt to group or configure the device. If you are still having issues, refer to the Clairity Pro User Manual or contact Technical Support for assistance using Clairity Pro to complete programming of your device.

For further troubleshooting guidance, please contact the Controls Technical Support Team 1(800)-535-2465





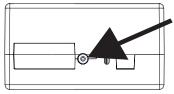
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FAMILY INSTRUCTIONS



USER BUTTON

On the side of the controller is a lighted user button. This button can be used for testing and re-programming purposes.



User Button, also functions as LED indicator. (On UVOLT models, the button is separate from the LED)

UL924 Test (ER model only)

Use this test to confirm that the lighting load is properly connected and provides the necessary output in event of loss of power.

1. Press and Release the button.

2. Relay will close and dimming output will go to full brightness for 4 seconds.

3. After 4 seconds expires, the device returns to its previous state and the indicator LED shuts off.

LED Diagnostics

The LED is illuminated whenever the button is depressed, and blinks to confirm the start of maintenance mode. Depress the button from the side to view LED and confirm that the device is operational.

WIRING (DO NOT WIRE HOT)

Maintenance Mode

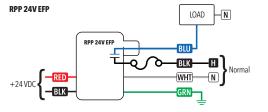
Use this mode if you are unable to Identify this device within the Clairity Pro application. 1. Press and hold button for 10 seconds, then release. LED will begin to flash rapidly after 10 seconds and stop flashing when the button is released.

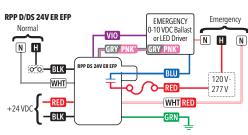
 Immediately press and hold button again for 10 seconds, then release. LED will begin to flash rapidly after 10 seconds and stop flashing when the button is released.
 The LED will flash twice to confirm entry into Maintenance Mode.

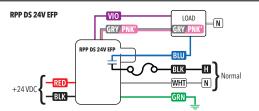
For 60 minutes, the device becomes identifiable in the Clairity Pro app and available for direct connection from mobile app to device (without requiring Group Monitor to be present, in case of a fault or connectivity issue with the Group Monitor).

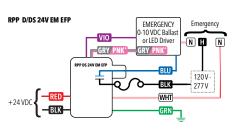
Clairity Pro can then be used to perform functions such as:

- * Reprogram device settings
- * Reset device network settings
- * Firmware update
- * General troubleshooting and diagnostic functions









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1. Insert precision slotted screwdriver into

2. Gently press screwdriver into terminal

then gently pull wire to remove

terminal slot

Legend

BLK - Unswitched Hot 120-277V RED - 120-277VAC Emergency Hot** WHT/RED - Emergency Neutral BLK - Unswitched Norm. Hot** WHT - Norm. Neutral** BLU - Switched Output VIO - 0-10V Dim (+) PNK* - 0-10V Com (-) RED (Terminal) - +24VDC BLK (Terminal) - DC Com GRN - Ground OO: - Optional Test Switch (by others) *0-10V Dimming Common from luminaire may be pink or as otherwise indicated per section 410.69 of the 2020 NEC

**Emergency on ER and EM devices

Do NOT wire while connected to live power, damage may occur.

USING 24 VDC TERMINALS (24V models only) Connecting Wire to 24V Terminals

