

PowPak® | Installation

CCO Module

Part of the Energi TriPak® Family

RMJS-CCO1-24-B
URMJS-CCO1-24B

24 V~ 45 mA
24 V== 35 mA

NEC® CLASS 2
UL 2043 Plenum Rated

★ For set-up, programming, and troubleshooting with a Vive™ system, please refer to the installation instructions included with the Vive™ hub or at www.lutron.com

Note for Replacement:
RMxS and URMxS - the "S" model can replace the non-"S" model

Important Notes: *Please read before installing.*

- For installation by a qualified electrician in accordance with all local and national electrical codes.
- Note:** Use copper conductors only.
- Check to see that the device type and rating is suitable for the application.
- DO NOT** install if product has any visible damage.
- If moisture or condensation is evident, allow the product to dry completely before installation.
- Operate between 32 °F (0 °C) and 131 °F (55 °C).
- 0% to 90% humidity, non-condensing.
- For indoor use only.

⚠ WARNING

Shock Hazard. May result in serious injury or death.
Turn off power at circuit breaker before installing the unit.

English

PowPak® CCO Module

Install in center of room to maximize RF coverage.

Radio Powr Savr™ Occupancy Sensor

30 ft (9 m) Maximum

Pico® Remote Control

40 ft (12 m)

9 ft (10 m)

All Wireless Transmitters must be installed within 30 ft (9 m) of the PowPak® CCO Module.

FCC/IC Information:

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference, including interference that may cause undesired operation.
Modifications not expressly approved by Lutron Electronics Co., Inc. could void the user's authority to operate this equipment.

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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television 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:

- 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.

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Lutron Electronics Co., Inc. | 7200 Suter Road
Coopersburg, PA 18036-1299, U.S.A.

Required Components

For each system ensure you have:

At least one PowPak® CCO Module.

Load Status LED

CCO Toggle

Advanced Operations

Contact Closure Output (CCO) (Class 2)

PowPak® CCO Module

At least one Wireless Transmitter.

Radio Powr Savr™ Occupancy Sensor (10 maximum)

Pico® Remote Control (10 maximum)

Radio Powr Savr™ Daylight Sensor (1 maximum)

Start Here

1

Install PowPak® Relay Module

When installing a PowPak® CCO Module, use the supplied conduit nut and wire the module as shown.

Suggested Installation Location:

Install in center of room.
This ensures proper RF coverage of area.

Note: PowPak® CCO Module may also be mounted on or inside a junction box.

If installing unit inside a junction box please see Application Note #423.

For more information:
www.lutron.com/powpakcco

2

Associate Wireless Transmitters to PowPak® CCO Module *

Before beginning this step, make sure that there are no other PowPak® modules being set up within the same building. It is possible that Wireless Transmitters from other systems can be incorrectly associated to this system.

A

Hold the CCO Toggle button on the PowPak® CCO Module for 6 seconds to enter association mode.

B

Hold the indicated button on a Wireless Transmitter for 6 seconds to associate the device.* Repeat for any additional Wireless Transmitters.

C

Hold the CCO Toggle button on the PowPak® CCO Module for 6 seconds to save association(s).

COM (Common)

NO (Normally Open)

NC (Normally Closed)

Supply Voltage 24 V~ / 24 V==

Wire nut (2 Supplied)

Mounting screw (2 Supplied)

To CCO-controlled device

Note: When wiring CCO output, use 20 AWG to 16 AWG (0.5 mm² to 1.5 mm²) solid or stranded wire.

3

Permanently Install Wireless Transmitters

Note: Please consult individual component installation guides for information.

4

Daylight Sensor setup *

Calibration

A

Turn lights in room on using the CCO Toggle button on the PowPak® CCO Module or an associated Pico®.

B

Press & hold "Cal." on the associated Daylight Sensor for 6 seconds.

C

Exit room for 5 minutes to allow calibration to be completed.

Note: When calibration has completed, all lights will flash and the system will begin daylighting.

Tuning (Optional)

A

If it is desired to have multiple zones of lights turn on at different daylight levels (using multiple CCO Modules with one Daylight Sensor) follow the Tuning procedure described in the Daylight Sensor (LRF2-DCRB) installation instructions.

Use the CCO Toggle button in place of the Dimmer/Switch tap button referenced in the document.

Need Help? www.lutron.com or call the Lutron Technical Support Center, at 1.800.523.9466

Limited Warranty

(Valid only in U.S.A., Canada, Puerto Rico, and the Caribbean.)
Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

This warranty is in lieu of all other express warranties, and the implied warranty of merchantability is limited to one year from purchase. This warranty does not cover the cost of installation, removal or reinstallation, or damage resulting from misuse, abuse, or damage from improper wiring or installation. This warranty does not cover incidental or consequential damages.

LUTRON'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, OR USE OF THE UNIT SHALL NEVER EXCEED THE PURCHASE PRICE OF THE UNIT.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty may last, so the above limitations may not apply to you.

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NEC is a registered trademark of National Fire Protection Association, Quincy, Massachusetts.

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CCO Information

- This product features a single contact closure output with both normally open (NO) and normally closed (NC) dry contacts.
- The CCO incorporates maintained output behavior only.
- The CCO is rated to switch resistive loads at voltages up to 24 V only. To properly control inductive load types such as relays, solenoids, or motors, refer to Application Note #434.

Switching Voltage	Resistive Load R
0-24 V==	1.0 A
0-24 V~	0.5 A

Transmitting Device	Transmitted Command	CCO Default Action
Pico® Remote Control	On	NO = Close, NC = Open
	Off	NO = Open, NC = Close
	Raise	No Action
	Lower	No Action
	Preset	NO = Close, NC = Open
Radio Powr Savr™ Occupancy Sensor	Occupied	NO = Close, NC = Open
	Unoccupied	NO = Open, NC = Close
Radio Powr Savr™ Vacancy Sensor	Occupied	No Action
	Unoccupied	NO = Open, NC = Close
Radio Powr Savr™ Daylight Sensor	Ambient light below target level	NO = Close, NC = Open
	Ambient light above target level	NO = Open, NC = Close

Unaffected Mode

Unaffected Mode allows a system with an Occupancy Sensor associated to multiple CCO Modules to be set up such that only selected loads turn on automatically. Other loads will require a manual turn-on with a Pico® Remote Control. All loads will turn off automatically when the room is vacated.

A

On a CCO Module, press and hold both the CCO Toggle and Advanced Operations ("ADV") buttons for 6 seconds until the LED begins flashing quickly.

B

On the associated Occupancy Sensor, press and hold the "Test" button* for 6 seconds until the lens flashes.

C

Unaffected mode will be exited automatically. This CCO Module will now be unaffected by occupancy commands. Repeat procedure for any additional devices.

* If no "Test" button, hold "Lights On" button.

Reset Factory Defaults

Note: In some instances it may be necessary to reset the PowPak® CCO Module back to factory default settings.

A

Triple-tap the Advanced Operations ("ADV") button on the CCO Module and hold until the LED begins to flash slowly.

B

Within 3 seconds of flashing, release and triple-tap the button again and the LED will flash rapidly indicating that the unit has been reset to factory defaults.

Note: Any associations or programming previously set up with the unit will be lost and will need to be re-programmed.

Troubleshooting *

www.lutron.com

CCO-controlled device does not respond to Wireless Transmitter(s)	- Ensure breaker to the PowPak® CCO Module is on. - Ensure the CCO-controlled device has been properly wired to the PowPak® CCO Module. - Ensure Wireless Transmitter is properly associated to PowPak® CCO Module. - Ensure Wireless Transmitter's battery is installed correctly.
Wireless Transmitter(s) cannot be associated to PowPak® CCO Module	The maximum number of Wireless Transmitters have been associated to the PowPak® CCO Module. To remove a previously set up Wireless Transmitter, tap the button used for association on the Wireless Transmitter three times, on the third tap hold for three seconds and then tap three more times.

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Certifié en Plénum UL 2043

RMxS et URMxS - le modèle « S » peut remplacer le modèle non-« S »

- Pour installation par un électricien qualifié conformément aux codes locaux et nationaux de l'électricité.
- **Remarque** : utilisez des conducteurs en cuivre seulement.
- Vérifiez que le type et les caractéristiques nominales du dispositif sont appropriés pour l'utilisation.
- **N'installez PAS** le produit s'il comporte des dommages visibles.
- Si vous remarquez de l'humidité ou de la condensation, laissez le produit sécher complètement avant de l'installer.
- Faites fonctionner à une température se situant entre 0 °C (32 °F) et 55 °C (131 °F).
- Le facteur d'humidité doit se situer entre 0 % à 90 %, sans condensation.
- Destiné à l'usage à l'intérieur uniquement.



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- Le nombre maximum de transmetteurs sans fil a été associé au module CCO PowPak®. Pour retirer un transmetteur sans fil déjà installé, appuyez brièvement trois fois le bouton utilisé pour l'association au transmetteur sans fil, et la troisième fois gardez le enfoncé pendant trois secondes, puis appuyez brièvement trois autres fois.

