GreenConnect™

GreenConnect Wireless Receptacle 20A

Cat. No. ZBR20

LEVITON

WARNINGS:

- **TO AVOID FIRE, SHOCK OR DEATH: TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF BEFORE WIRING!**
- To be installed and/or used in accordance with electrical codes and regulations.

CAUTIONS:

- For indoor applications only.
- If you are unsure about these installation instructions, contact an electrician.
- **SAVE THESE INSTRUCTIONS.**

DI-000-ZBR20-02B-**W**

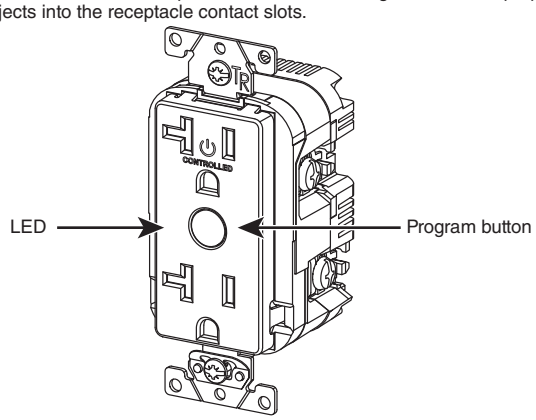
INSTALLATION INSTRUCTIONS **ENGLISH**

Product Description

GreenConnect Wireless receptacles provide simple wireless control of connected loads when paired with a GreenConnect load controller or enrolled to a GreenMAX DRC Wireless room controller.

The receptacle is rated for 20A and is designed to provide downstream control of additional receptacles. The receptacle is split with the top outlet controlled by the network and the bottom outlet always ON. The program button on the front can be used to manually toggle the controlled outlet ON/OFF, put the receptacle into pairing mode, or to reset to factory default settings.

The receptacle has a built-in tamper resistant barrier designed to limit improper insertion of small objects into the receptacle contact slots.



NOTES:

- Terminals accept maximum 12AWG solid copper wire.
- BLACK terminal: line voltage wire input
- SILVER terminal: neutral wire
- BLUE terminal: downstream to additional controlled receptacles (if applicable)
- GREEN terminal: ground

Before You Install

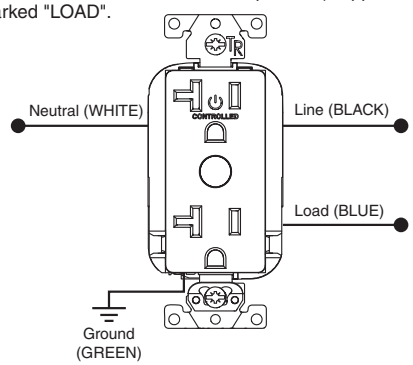
GreenConnect Wireless receptacles communicate with other devices using a 2.4Ghz wireless mesh network. The receptacle has a wireless reception range of 75 feet line-of-site. Reception range is reduced when wireless communications must traverse building materials.

Installation

WARNING: TO AVOID FIRE, SHOCK OR DEATH: TURN OFF POWER SUPPLYING THIS EQUIPMENT AND CONFIRM POWER IS OFF, before installing, removing or servicing this equipment.

1. Working on one connection at a time, connect wires as shown.

- **a.** GREEN or bare copper wire in wallbox to GREEN terminal screw.
- **b.** Line wallbox wire to terminal screw (BLACK) marked “LINE”.
- **c.** Neutral wallbox wire to terminal screw (SILVER) marked “NEUTRAL”
- **d.** Downstream connection to additional receptacles (if applicable) to terminal screw (BLUE) marked "LOAD".



2. Tighten mounting screws into wallbox and attach wallplate.

3. Restore power.

Specifications	
Input Voltage/Frequency	125VAC, 60Hz
Load Ratings	
General Purpose/Resistive @ 125V	20A Type: 2P, 3W, back-wired
Incandescent @ 125V	1500W
LED/E-Ballast @ 125V	5A
Motor @125V	1HP
IP Rating	IP10
Network Connections	2.4GHz, IEEE 802.15.4
Wireless Transmitting Power	< 4.5 dBm
Wireless Transmission Range	50-100 ft (**NOTE:** Range depends on receiver location and building construction)
Operating Temperature	20A rated up to 25°C 15A rated up to 45°C
Storage Temperature	-4° to 140°F (-20° to 60°C)
Maximum Humidity	≤ 85%

Operation

1. Indicator Light

- GREEN LED ON indicates controlled outlet is ON.
- GREEN LED OFF indicates controlled outlet is OFF.

2. Manual control

- The program button allows the user to manually turn the controlled outlet ON or OFF. When the GREEN LED indicator turns ON, the appliance or device plugged into the controlled outlet will turn ON, and vice versa.

System Programming

1. Required devices

- GreenConnect requires one load control device to create a wireless network and function as the network manager. This can be a wireless load controller, dimmer, or switch. Receptacles and battery-powered devices cannot create a network.
- A maximum combination of 16 load controllers, wall stations, or sensors can be connected in a network.
- GreenConnect devices are also compatible with GreenMAX DRC Wireless for systems that require more than 16 devices.

2. Connecting your receptacle to a GreenConnect or GreenMAX DRC Wireless network

- **a.** Ensure only the network you want to join is open. If more than one network within range is open, your device may join the wrong network.
- **b.** Press and hold the test button. After about four seconds, the LED will blink back the device diagnostic. Continue to hold for seven seconds until the LED blinks amber once, then release. The LED will start blinking amber rapidly, meaning you are at the main menu.
- **c.** Tap the test button once. The LED will blink green slowly while your device searches for a network to join. When it connects, the load will toggle OFF and ON twice with all connected devices in the network.
- **d.** To join a GreenMAX DRC network, use the GreenMAX DRC App to scan the QR code and follow the instructions included with the GreenMAX DRC room controller.
- **e.** If after 60 seconds a network is not found, the LED will stop blinking and the device will exit the menu.

3. Resetting your receptacle

To remove your receptacle from a network, or to restore it to default settings, press and hold the test button for 12 seconds until the LED blinks amber twice, then release. The LED will blink red while the device leaves the network and resets to factory defaults. If the device was a network manager, the reset will break the network and any enrolled devices will no longer be connected.

4. System features

- System settings are saved in the network manager.
- GreenConnect is a single zone system.
- All lighting loads respond together as a single lighting zone.
- All sensors form a single occupancy zone.
- Daylight values are aggregated across all sensors in a single daylight zone.
- The default settings are:
  - i. Occupancy Mode: Auto-ON/Auto-OFF
  - ii. Auto-ON level: 50%
  - iii. Sensitivity: High
  - iv. Occupancy time-out: 15 minutes
  - v. Partial Off: Disabled
  - vi. Photocell: Disabled

5. Changing the system features

a. Feature settings are saved in the load control device that is functioning as the network manager. Press and hold the top paddle or test button of the network manager for seven seconds until the LED blinks amber once, then release. The LED will begin blinking amber rapidly.

b. Tap the number of times that corresponds to the feature menu you want to access. The LED will blink the feature menu number in green, pause, then blink the menu setting number currently saved in amber. For example, to access feature menu #3 (Occupancy Auto-ON level) from the main menu, tap three times. The LED will blink green three times, then blink amber five times for the default setting #5. This blink back pattern will repeat every 60 seconds.

c. Once within the feature menu, tap the number of times that corresponds with the new setting you want to select. For example, to change the default Auto-ON value from setting #5 to setting #1, tap once. The LED will blink the number of times corresponding with the selected option in amber. Watch the new blink back patten to ensure the setting is what you selected. If it isn't, just enter your selection again.

d. Return to the main menu by pressing and holding the test button for seven seconds until the LED blink amber once, then release. The LED will then begin blinking amber rapidly.

e. To exit the main menu, press and hold again for seven seconds until the LED stops blinking amber, then release.

6. Features menus

Feature #3: Occupancy Auto-ON level	
Setting #	**Value**
1	100%
2	50%
3	25%
4	Manual-ON (vacancy)
5	Restore last level (default)

Feature #4:Occupancy Sensitivity	
Setting #	**Value**
1	Medium
2	Low
3	High (default)

Feature #5: Primary Time-out	
Setting #	**Value**
1	Test mode (30 seconds for 5 minutes then reverts to prior setting)
2	60 minutes
3	30 minutes
4	15 minutes (default)
5	5 minutes
6	Disabled

Feature #6: Partial-OFF Level	
Setting #	**Value**
1	Disabled (Default)
2	50%
3	25%

Feature #7: Secondary Time-out	
Setting #	**Value**
1	5 minutes
2	15 minutes (Default)
3	30 minutes
4	60 minutes

Feature #8: Daylighting Target	
Setting #	**Value**
1	Disabled (Default)
2	25 footcandles
3	35 footcandles
4	45 footcandles

Feature #9: Secondary Level	
Setting #	**Value**
1	0% (Default)
2	50%
3	25%

Menus and LED feedback				
Action		**LED Color**	**Blink Rate**	**Status**
Press and hold: 4 seconds	Device Diagnostic	Red	3 times	Not enrolled in a network
		Green	3 times	Enrolled in active network
			2 times	Enrollment incomplete
			1 time	Enrolled no communication from the network
Press and hold: 5-9 seconds	Main Menu	Amber	1 time	Release after first amber blink to enter the main menu. The LED will begin blinking amber rapidly
			Rapid	
Tap	1 time	Green	Slow	Enter pairing mode and search for network to join. If already paired, open the network
Press and hold: 10-14 seconds	Reset	Amber	2 times	Release after the second amber blink to reset to factory default settings
Press and hold: 15-19 seconds	Exit		3 times	Release after the third amber blink to take no action and exit

What to do if...

Device won't pair:

1. Confirm that the receptacle is powered.

2. Check if the wireless distance is too far.

The LED indicator does not turn ON:

1. Check the wiring connections.

2. Check manually by pressing the program button on the receptacle.

For Technical Assistance Call: 1-800-824-3005 (USA Only) or 1-800-405-5320 (Canada Only)
www.leviton.com