Control 4®

Wireless 6-Button Keypad Installation and User Guide

Supported Models, Features, and Fixtures

This installation guide covers these 6-button keypad models:

LDZ-101-W   Wireless 6-Button Keypad (802.15.4)

LDZ-101-B   Wireless 6-Button Keypad (802.15.4)

LDZ-101-A   Wireless 6-Button Keypad (802.15.4)

The Control4 Wireless 6-Button Keypad can be configured as a peer-to-peer device or as part of the Control4 network. It can be programmed to do any supported network event (such as controlling a group of lights, a music zone, or a security system) or can simply be used to replace 3 light switches. It installs in a standard wall box using typical wiring standards and gets power from a nearby power outlet or light switch. It communicates to the system using a wireless connection and features a tri-color LED for system feedback. It supports lighting fixtures with the following load requirements:

- 120 Volt incandescent (all types)
- 120 Volt halogen (all types)
- 120 Volt magnetic low voltage
  (all types with 70 percent or greater load factor)
- 120 Volt electronic low voltage (dimmable only)
- 120 Volt fluorescent light fixtures (dimmable only)

WARNING! **To reduce the risk of serious injury or death, turn all power OFF before installing this product. Using this product in a manner other than outlined in this document voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Limited 1 Year Warranty" on page 4. This product generates heat. The room must have adequate ventilation or heat dissipation ability. Do NOT use this device to control a device with a non-dimmable load. You should only use it with devices that have dimmable feature support.**

Installation Instructions

1 **Ensure that the location and intended use meet the following criteria:**
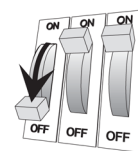
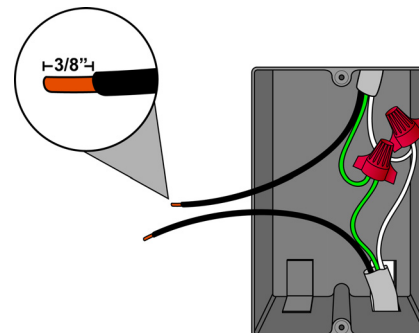| DO (OK, Normal)	DON'T

• Install in accordance with all national and local electrical codes.
• Wall box size required depends on your wiring. The 6-button keypad alone needs a depth of 2.5 inches. To calculate the total depth required, add 2.5 inches to the amount of space recommended in the NCC Code for your configuration.
• The range and performance of the control system is highly dependent on the following:
  • Distance between devices
  • Layout of the home
  • Walls separating devices
  • Electrical equipment located near devices
	• If installing a multi-unit 6-button keypad, Do NOT continue until you have read "Multi-Unit Installations" on page 2.
	• Do NOT use where total wattage is under 25 watts.
	• Do NOT exceed maximum load rating of dimmer (which is 1000W for a single unit, if both side tabs are in tact).

2 **To avoid injury or death, turn OFF local electrical power.** To turn off the power, either flip the circuit breaker or remove fuse from fuse box. To ensure the wires do NOT have power running to them, use an inductive voltage detector.

3 **Prepare and identify all wires.** Identify the wires in your wall box. Straighten the wire ends. With a wire cutter, cut off the bare wire just below the plastic insulation on all wires. Use a wire stripper to strip off about 3/8-inch of the insulation.
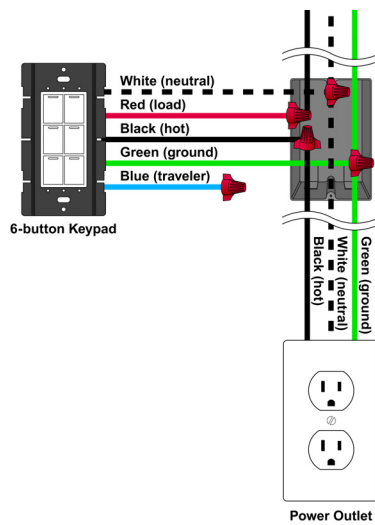

IMPORTANT: **The National Electric Code (NEC) requires 6 inches of extended wire from the wall box. If your wiring does not meet this requirement, you will not meet code. Do NOT cut wire shorter than 6 inches.**

IMPORTANT: **When installing this product in a commercial application or metal wall box, you might need to ground it to the wall box.**

4 **Connect the 6-button keypad wires to the wall box wires using wire nuts.** The wall box wires can differ depending upon how it was wired by your electrician.
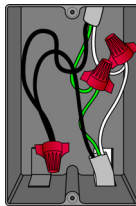
To wire the 6-button keypad for a Control4 single-switch environment with the power coming from a nearby power outlet or light switch, connect and cap with a wire nut the wires indicated in the table.

White (neutral)
Red (load)
Black (hot)
Green (ground)
Blue (traveler)

6-button Keypad

Green (ground)
White (neutral)
Black (hot)

Power Outlet

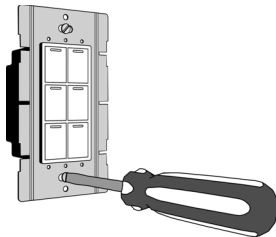| Wires from 6-Button Keypad	Power Outlet or Light Switch
White (neutral)	White (neutral)
Black (hot)	Black (hot)
Green (ground)	Green (ground)

5 **.**
Fit wires back into the wall box. Bend the wires in a zigzag pattern so that they easily fold into the wall box. Push the 6-button keypad into place. Adjust the 6-button keypad so that it is perpendicular to the floor. Tighten the two screws that hold it in position in the wall box.
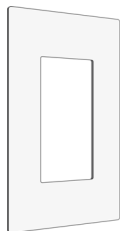

6 **Align 6-button keypad to wall box and fasten with screws, unless you are using a Decora screw-on-style wall plate.** If you are using a screw-on-style wall plate, before fastening with screws, you must first align the wall plate with the 6-button keypad and the wall box.
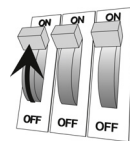

7 **If you are using the Control4 snap-on- style wall plate, snap it over the 6-button keypad now.**

8 **Turn ON power at circuit breaker or replace fuse from fuse box.**

9 **Test the see if it is working properly.**
To operate and configure this 6-button keypad as a stand-alone device, refer to the documentation that shipped with your Control4 controller. Refer to information on configuring or setting up lighting.
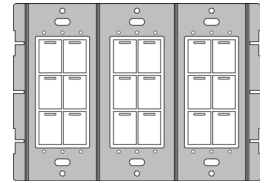
Troubleshooting

If light does not turn on:

- Ensure light bulb is not burned out.
- Ensure light bulb is screwed in tightly.
- Ensure circuit breaker is not turned OFF or tripped.
- Check for proper wiring.

Multi-Unit Installations

Multi-unit installations allow you to install one stand-alone 6-button keypad next to another in the same wall box. Multi-unit keypads ship pre-connected. DO NOT remove side tabs from outer sides.They help to regulate the capacity.

- With both sides intact (single unit), the capacity is 1000W maximum.
- If you remove one side, the capacity is reduced to 800W maximum.
- If you remove two sides, the capacity is reduced to 600W maximum.

Included Accessories

- Wall Plate
- J-Box Bolts
- Plate Bolts
- A/V/C Keycap Kit

Optional Accessories

- Audio Keycaps
- Video Keycaps
- System Keycaps

Operation and Configuration

Peer to Peer Mode Instructions

The 6-Button Keypad ships in peer-to peer mode:

Operate 6-Button Keypad	
To operate Button 1, 2, 3, 4, 5 or 6:	**Expected Behavior of RGB LEDs**
Turn ON: Tap button once.	Green = ON
Turn OFF: Tap button once.	Red = OFF
Enter Configuration Mode	
To enter configeration mode for Button 1, 2, 3, 4, 5 or 6:	**Expected Behavior of RGB LEDs**
1. Press and hold the button for 30 seconds.	Flash – Green = No Action
2. Tap button once.	Solid – Green = No Action
3. Tap button once.	Flash – Red = No Action
4. Tap button once.	Solid - Red = Configuration Mode

Configuration Mode Instructions

View Network Status	
To view the network status of Button 1, 2, 3, 4, 5 or 6:	**Expected Behavior of RGB LEDs**
1. Tap button once.	Fast Flashing Green = Strong Signal Slow Flashing Green = Good Signal Slow Flashing Red = Weak Signal Solid Red = No Signal
2. To reset, press and hold for 15 seconds.	Fast Flashing Green = Strong Signal Slow Flashing Green = Good Signal Slow Flashing Red = Weak Signal Solid Red = No Signal
Toggle between Peer-to-Peer and Network Mode	
To toggle Button 1, 2, 3, 4, 5 or 6 between Peer-to-Peer and Network Mode:	**Expected Behavior of RGB LEDs**
1. To enter Peer-to-Peer Mode, tap button once.	Flashing Green = Waiting for other device to attached
2. If unattached, to attach, press and hold 15 seconds.	Fast Flashing Green = Currently Attached to a device
3. If attached, to unattach, press and hold 15 seconds.	Fast Flashing Red = Unattached
Exit Configuration Mode	
To exit Configuration mode for Button 1, 2, 3, 4, 5 or 6:	**Expected Behavior of RGB LEDs**
Tap button once.	Flash Green LED three times

FCC and UL Information

FCC ID: R33KPZ6B1

CAUTION!	Changes or modifications not expressly approved by Control4 could void the user's authority to operate the equipment.

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 interfence, and (2) this device must accept any interference received, including interference that may cause undesired operation.

UL Control number: ???

CAUTION!	To reduce the risk of overheating and possible damage to other equipment, Do Not Install to control an Outlet Receptacle, a Motor-Operated Appliance, a Fluorescent Lighting Fixture, or a Transformer-Supplied Appliance.

Limited 1 Year Warranty

This device has a limited one (1) year warranty on parts from the date of installation. Control4 will replace or repair any defective unit. Return unit to the place of purchase for replacement. For any damages incurred, the warranty will never exceed the purchase price of the device. This warranty does not cover installation, removal, or reinstallation cost. The warranty is not valid in cases where damage incurred due to misuse, abuse, incorrect repair, or improper wiring or installation. It does not cover incidental or consequential damage. This warranty gives you specific legal rights, and you might also be entitled to other rights that vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or conseqential damages. In these cases, the above mentioned limitations might not apply to you. To automatically receive notification of upgrades, register your device by returning the enclosed registration card or by going to the MyControl4.com web site.

Control4 Technical Support

For help on the installation or operation of this product, email or call the Control4 Technical Support Center. Please provide your exact model number. Contact support@control4.com or see the web site www.control4.com.United States Patents Pending.© 2004 Control4 Technologies.

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