Control4™

Configurable Keypad Installation Guide

Supported Model

- C4-KC240 Wireless Configurable Keypad, 240V

Introduction

The Control4® Configurable Keypad is intended for use in a Control4 system. It installs in a standard wallbox using typical wiring standards and communicates to the Control4 system using a wireless connection.

Box Contents

- Configurable Keypad
- Keycap Button Kit
- Terminal Block
- Warranty Card
- *Configurable Keypad Installation Guide* (this document)
- *Keypad Buttons Installation Guide*

Specifications

The specifications are described below.

Model number	C4-KC240-xx
Power requirements	220V AC to 240V AC +/-10% 50/60 Hz 36-48V DC This device requires a neutral AC connection.
Power consumption	240V: 480mW 36V DC: 430mW
Environmental	
Operational temperature	0 to 40 ˚C (32 to 104 ˚F)
Humidity	5% to 95% non-condensing
Storage	-20 to 70 ˚C (-4 to 158 ˚F)
Miscellaneous	
Control communications	Zigbee, IEEE 802.15.4, 2.4 GHz, 15-channel spread spectrum radio
Wallbox volume	77.8 cubic centimeters (4.75 cubic inches)
Weight	0.05 kg (0.12 lb.)
Shipping weight	0.08 kg (0.18 lb.)

Warnings and Considerations

⚠ **WARNING!** Turn OFF electrical power before installing or servicing this product. Improper use or installation can cause SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.

⚠ **WARNING!** This device must be protected by a circuit breaker (20A max).

⚠ **WARNING!** Ground this device in accordance with the National Electric Code (NEC) requirements. DO NOT rely solely upon the yoke plate's contact with a metal wallbox for adequate grounding. Use the device's ground wire to make a secure connection to the safety ground of the electrical system.

✓ **IMPORTANT!** This device must be installed by a licensed electrician in accordance with all national and local electrical codes.

✓ **IMPORTANT!** If you are unsure about any part of these instructions, consult a qualified electrician.

✓ **IMPORTANT!** Use this device only with copper or copper-clad wire. Do not use aluminum wiring. This product has not been approved for use with aluminum wiring.

✓ **IMPORTANT!** 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 "Troubleshooting."

✓ **IMPORTANT!** Do NOT use a power screwdriver to install this device. If you do, you may overtighten the screws and strip them. Also, overtightening the screws may interfere with proper button operation.

✓ **IMPORTANT!** This is an electronic device with intricate components. Handle and install with care!
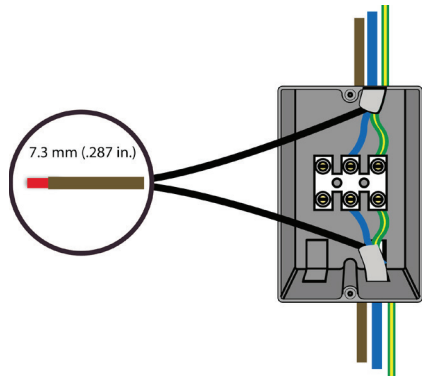
Installation Instructions

1   Ensure that the location and intended use meet the following criteria:

- When replacing a traditional 3-way switch, refer to the "Two-Location" sample wiring configurations provided in the appropriate load control device installation guide.
- Install in accordance with all national and local electrical codes.
- The range and performance of the wireless control system is highly dependent on the following: (1) distance between devices; (2) layout of the home; (3) walls separating devices; and (4) electrical equipment located near devices.

2   Turn off the mains electrical power at the consumer unit. To ensure the wires do NOT have power running to them, use an inductive voltage detector.

✎ **NOTE:** The wallbox wiring shown in this document is an example. Your wire colors and functions may differ. If you are not sure which wires are the Hot, Neutral, and Ground wires, have a trained electrician do the installation.

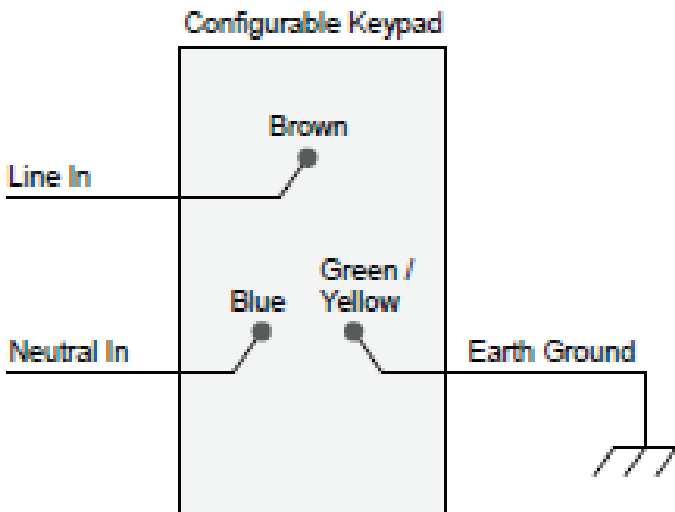3   Prepare each wire. Wire insulation should be stripped back 7 mm (0.287 in.) from the wire end (see Figure 1).

Figure 1. Strip Wire Insulation

7.3 mm (.287 in.)

✓ **IMPORTANT!** Not grounding this product, as described in the section, "Warnings and Considerations," may result in an installation less immune to damage caused by electrical disturbances, such as ESD or lightning, and may void the warranty.
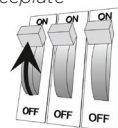
4   Identify and connect the keypad wires to the wallbox wires using the terminal block as shown in Figure 2 below.

Figure 2. Keypad Wiring

Configurable Keypad

Brown

Line In

Blue   Green / Yellow

Neutral In   Earth Ground

💡 **TIP:** If you are using a Control4 push-on (screwless) faceplate in a multi-gang installation, attach the black faceplate sub-plate to all of the devices that will be installed into the wallbox prior to attaching the devices to the wallbox. This will help ensure that all the devices are properly aligned and on the same plane after installation.

5   Fit the wires back into the wallbox. Bend the wires in a zigzag pattern so that they easily fold into the wallbox.

6   Align the keypad to the wallbox (the model # label should be at the bottom) and fasten it with screws. Tighten the screws until the back side of the yoke plate is even with the wall surface, but no further. Overtightening can warp the configurable keypad and cause mechanical malfunction.

7   Install the Top Actuator Bar, Bottom Sensor Bar, and buttons as described in the *Keypad Button Installation Guide*.

8   Install the Control4 Faceplate following the instructions in the *Faceplate Installation Guide* or attach a standard Decora-style faceplate.

9   Turn ON mains electrical power at the consumer unit.

Operation and Configuration

On initial power up, all status LEDs on the keypad will illuminate green indicating that the device has power. Until the keypad has been configured into a Control4 system, it will not control any loads. To set up this keypad for use with a Control4 system, refer to the *Composer Pro User Guide*.

Button Tap Sequences

The button tap sequences are defined in the table below. Button tap sequences that require a single (1) button should use the top-most button installed on the keypad. Button tap sequences requiring two (2) buttons should use the top-most and bottom-most buttons installed on the keypad.

Function	Button Sequence
Identify	4
Zigbee channel	7
Reboot	15
Factory reset	9-4-9
Leave mesh and reset	13-4-13

Troubleshooting

If the LEDs do not light up indicating that the keypad is receiving power::

- Ensure circuit breaker is not turned OFF or tripped.
- Check for proper wiring (see Step 2 in "Installation Instructions").
- 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.

Care and Cleaning

- Do NOT paint the keypad or its wall plate.
- Do NOT use any chemical cleaners to clean the keypad.
- Clean surface of the keypad with a soft damp cloth as needed.

Warranty and legal information

Find details of the product's Limited Warranty at **snapav.com/warranty** or request a paper copy from Customer Service at **866.424.4489**. Find other legal resources, such as regulatory notices and patent information, at **snapav.com/legal**.