**Supported models:**
- C4-KD120: Keypad Dimmer, 120V
- C4-KD277: Keypad Dimmer, 277V

**Introduction**
The Control4® Keypad Dimmer operates independently or as part of a Control4 home automation system. It installs in a standard back box using typical wiring standards and communicates to the Control4 system using a wireless connection.

**Box contents:**
- Keypad Dimmer
- Keypad Button Kit
- Wire nuts
- Warranty card
- **Keypad Dimmer Installation Guide** (this document)
- **Keypad Button Installation Guide**

**Specifications and supported load types:**

<table>
<thead>
<tr>
<th>Model number</th>
<th>C4-KD120-ss</th>
<th>C4-KD277-ss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>C4-KD120: 120VAC +/-10%, 50/60Hz</td>
<td>C4-KD277: 277VAC +/-10%, 50/60Hz</td>
</tr>
</tbody>
</table>

This device can work with or without a neutral AC connection depending on load type. Wiring with a neutral is always the preferred wiring method (if possible). See load types and "Sample Wiring Configurations" below.

When wired without a neutral, loads may appear dimmer.

**Power consumption**
- 120VAC: 76mW; 277VAC: 2.51W

**Supported load types**

<table>
<thead>
<tr>
<th>Load types and ratings</th>
<th>Inandescent (tungsten)</th>
<th>Halogen</th>
<th>Fluorescent*</th>
<th>Compact fluorescent (CFL)*</th>
<th>LED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Gang</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>2-Gang</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td>3-Gang</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>800</td>
</tr>
</tbody>
</table>

**NOTES:**
1. The maximum load requirements for fluorescent, CFL, and LED loads can vary greatly depending upon the specific fixture and/or bulb being used. These load types have significant in-rush current which can trip the protection circuitry on the device.
2. The quality and performance of these load types varies greatly from manufacturer to manufacturer. We recommend testing in advance. If problems are found, simply changing to a different bulb manufacturer may solve the problem.
3. Additionally, we do not recommend the use of fluorescent, CFL, or LED loads without a neutral wire connected to the dimmer due to the capacitive nature of these load types.
4. Wiring with a neutral is always the preferred wiring method (if possible).

**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.

**ATTENTION:**
- Eau: l’alimentation électrique avant d’installer ou de réparer ce produit. Une mauvaise installation ou utilisation peut entraîner des électrocutions, des dégâts ou pertes dommages à la propriété.

**ATTENTION:**
- L’appareil doit être protégé par un circuit breakers (20A max).

**ATTENTION:**
- Ce dispositif doit être installé conformément au Code national de l’électricité (NEC). Ne comptez pas uniquement au contact de la prise avec un bouton murale mécanique pour la mise à la terre adéquate. Utilisez cet appareil à la terre de l’appareil pour établir une connexion sécurisée au système électrique.

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

**IMPORTANT:**
- For wiring the dimmer, we recommend always using a neutral wire when possible. See Figure 6.

**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:**
- To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle or a motor operated appliance.

**IMPORTANT:**
- This product generates heat during normal operation.

**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 seesaw 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!

**IMPORTANT:**
- Control4 does not guarantee the performance of any bulb or lamp/fixture in your environment. CUSTOMER ASSUMES ALL RESPONSIBILITY FOR DAMAGE TO CONTROL4 PRODUCTS ASSOCIATED WITH THE USE OF THIS PRODUCT, AND NO OTHER WARRANTY OR LIABILITY OF ANY KIND, EXPRESS OR IMPLIED, IS PROVIDED. SAMPLING OF CONTROL4 PRODUCTS OR USE IN ACCORDANCE WITH THE DOCUMENTATION FURNISHED BY CONTROL4, EITHER WITH THE CONTROL4 PRODUCT OR AT WWW.CONTROL4.COM.

**IMPORTANT:**
- When used in conjunction with an Auxiliary Keypad (C4-KA-xx), the wire connecting the Auxiliary Keypad to the dimmer must not exceed 50 feet (45 m) at 120VAC, and 100 feet (30 m) at 277VAC.

**ATTENTION:**
- Cet appareil doit être en conformité avec le Code national de l’électricité (NEC). Ne comptez pas uniquement au contact de la prise avec un bouton murale mécanique pour la mise à la terre adéquate. Utilisez cet appareil à la terre de l’appareil pour établir une connexion sécurisée au système électrique.

**NOTE:**
- The back box wiring shown in this document is an example. Your wire colors and functions may differ. If you are not sure which wires are connected, place a wire (tine In Hot, Neutral, Load, Traveler, and Earth Ground wires, have a trained electrician perform the installation.

**NOT IN ACCORDANCE WITH THE DOCUMENTATION FURNISHED BY CONTROL4 OR ON SALE WITH JOINED CONTROL4 PRODUCTS OR SERVICES.**

**WARNING:**
- The yellow wire is not a traditional traveler. It cannot directly power a lighting load. It must be used only to connect to a Control4 Auxiliary Keypad. See "Sample Wiring Configurations".

Figure 1. Strip wire insulation

Figure 2. Bend the wires

**NOTE:**
- If you are using a Control4 push-on (screwless) faceplate in a multi-gang installation, attach the Push-Down Key天使à tout des petits dispositifs à l’aide de vis à tête carrée. Wing the screws equally and on the same plane after installation.

**Figure 3:**
- Turn off the local electrical power by either switching off the circuit breaker or removing the fuse from the fuse box. To ensure the wires do NOT have power running to them, use an inductive voltage detector.

**NOTE:**
- The back box wiring shown in this document is an example. Your wire colors and functions may differ. If you are not sure which wires are connected, place a wire (tine In Hot, Neutral, Load, Traveler, and Earth Ground wires, have a trained electrician perform the installation.

**Figure 4:**
- Prepare each wire. Wire insulation should be stripped back 5/8 of an inch from the end (see Figure 1).

**Figure 5:**
- Identify your wiring application, and then use the appropriate wiring diagram in the "Sample Wiring Configurations" section below.

**Figure 6:**
- Identify and connect the dimmer wires to the back box wires using the wire nuts.

**Figure 7:**
- Fit the wires back into the back box. Bend the wires in a zigzag pattern so that they easily fold into the back box (Figure 2)

**Figure 8:**
- Align the dimmer to the back box (the load rating label should be at the bottom) and fasten it with screws. Tighten the screws until the back side of the back box is even with the wall surface, but no further. Overtightening can warp the dimmer and cause mechanical malfunction.

**Figure 9:**
- Install the Control4 Faceplate following the instructions in the Faceplate Installation Guide or attach a standard Decora-style faceplate.

**Figure 10:**
- Attach the buttons, actuator bar, and sensor bar as described in the Keypad Button Installation Guide.
Turn ON power at the circuit breaker or replace the fuse from the fuse box.

NOTE: If the light flickers, adjust the dimmer's max/in settings in Composer (e.g. min 15%, max 85%). See ctrl4.co/dimmersettings.

Operation and configuration

On initial power up, all status LEDs on the dimmer will illuminate green indicating that the device has power. To set up this dimmer for use with a Control4 system, refer to the Composer Pro User Guide.

To operate this dimmer as a stand-alone device prior to configuration in Composer pro:

- If the light is off, click any button to turn the light on.
- If the light is on, click any button to turn the light off.
- Press and hold any button to ramp the light up/down. Release the button at the desired light level.
- If the split up/down buttons have been installed in the bottom button slot, the up and down arrows will ramp and fade the light respectively.

Air gap switch

During routine lamp replacement, you should remove power from the lamp by engaging the air gap mechanism.

1. To engage, press on the right side of the top actuator bar until the left side pops out. All LEDs on the dimmer will turn off and the dimmer will no longer control the light when the air gap mechanism has been engaged.

2. To return power to the dimmer and lamp, press on the left side of the top actuator bar until it snaps back into place.

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 button. Button tap sequences requiring two (2) buttons should use the top-most and bottom-most buttons installed on the Keypad Dimmer.

<table>
<thead>
<tr>
<th>Function</th>
<th>Button sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify</td>
<td>4</td>
</tr>
<tr>
<td>ZigBee channel</td>
<td>7</td>
</tr>
<tr>
<td>Restart</td>
<td>5</td>
</tr>
<tr>
<td>Factory reset</td>
<td>9-4-9</td>
</tr>
<tr>
<td>Leaving mesh and reset</td>
<td>13-6-13</td>
</tr>
</tbody>
</table>

Troubleshooting

If the light does not turn on:

- Ensure that at least one (1) LED on the face of the dimmer is lit.
- Ensure that the light bulb is not burned out and is screwed in tightly.
- Ensure that the circuit breaker is not turned OFF or tripped.
- Check for proper wiring (see “Sample Wiring Configurations”).
- 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.