



# Models: KPCW7 & KPCD7 Keypad Controllers

## Installation Guide and Owner's Manual



KPCW7



KPCD7

### FUNCTION

The 7Button Keypad Controller (KPCx7) is a high quality home automation controller that is capable of transmitting UPB (Universal Powerline Bus) digital commands over the existing power wiring to remotely turn on, off, and dim other UPB load control devices. No additional wiring is required and no radio frequency signals are used for communication.

#### Wall-Mount and Desktop Styles

The KPCx7 is available in two different styles: wall-mount and desktop. The KPCW7 is the wall-mount version and can be mounted in any wall box that contains both line and neutral wires. The KPCD7 comes in an elegant desktop enclosure that can be freely located near any wall outlet that exists throughout the home.

#### Engraved Pushbuttons

The KPCx7 has six backlit pushbuttons engraved with the designations of: **Scene 1, Scene 2, Scene 3, Scene 4, Off, UP and DOWN**. A Custom Engraved Membrane kit (model CEM7) is available enabling you to tailor each button for its particular use. Consult your dealer or our website [www.pcslighting.com](http://www.pcslighting.com) for CEM7 ordering information.

### IMPORTANT SAFETY INSTRUCTIONS

When using electrical products, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Keep away from water. If the product comes in contact with water or other liquid, turn off the circuit breaker and unplug the product immediately.
3. Never use products that have been dropped or damaged.
4. Do not use this product outdoors.

5. Do not use this product for other than its intended purpose.
6. Do not cover this product with any material when in use.
7. This product uses polarized plugs and sockets (one blade is larger than the other) to reduce the risk of electric shock. These plugs and sockets fit only one way. If they do not fit, consult an electrician.
8. SAVE THESE INSTRUCTIONS.

### INSTALLATION

The Keypad Controllers are designed for indoor use. Simply plug the KPCD7 into any 120V power outlet. To install the KPCW7 module in a wall box follow these instructions:

1. Before installing the KPCW7 into a wall box, ensure that power to the wall box has been disconnected by removing the fuse or turning the circuit breaker off. Installing products while the power is on may expose you to dangerous voltage and may damage the product.
2. Remove any existing wall plate and device from the wall box.
3. Use wire nuts to securely connect the KPCW7's white wire to the "Neutral" wire and the KPCW7's black wire to the "Line" wire (see illustration below).
4. Fit the KPCW7 into the wall box and secure with mounting screws. Install the wall plate.
5. Restore power at the circuit breaker.



Wiring Diagram



### CONFIGURATION

Once your KPCx7 is installed it can be configured either manually or with the UPStart Setup Software.



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Manual configuration can be used without UPStart to add your KPCx7 device into a UPB network and link it to various load control devices. Refer to the Keypad Controller's Manual Configuration Guide available on the PulseWorx website ([www.PulseWorx.com](http://www.PulseWorx.com)) for further details.

Although the factory default operation of the KPCx7 is very useful in many situations, it is highly recommended that you configure your KPC with the UPStart Setup Software to take advantage of its many configurable features.

PCS has developed a Powerline Interface Module (PIM) and free UPB Setup Software (UPStart) to help you configure all of your PulseWorx Lighting System devices. User's Guides are available on the PulseWorx page: [www.pcslighting.com](http://www.pcslighting.com) to explain how to configure your system.

### SETUP Mode

When configuring a UPB system, it will be necessary to place the KPCx7 into SETUP mode. To enter Setup Mode, simultaneously press and hold the **Scene 1** and **Down** buttons for 3 seconds. All of the LED indicators will blink once the device is in SETUP mode. To exit SETUP mode, again simultaneously press and hold the **Scene 1** and **Down** buttons for 3 seconds or wait five minutes for it to time out.

### Changing a Scene's Preset Light Levels

The 7-Button Controllers are specially designed to work with other PulseWorx™ Lighting System devices. Each pushbutton on these controllers is configured to activate a Preset Light Level and Fade Rate stored within the PulseWorx devices. The Preset Light Levels can be easily adjusted by following this simple procedure:

1. Press the pushbutton on the 7-Button Controller to activate the currently stored Preset Light Levels (scene) in the Wall Switch Dimmer(s).
2. Use the local rocker switch on the Wall Switch to set the new desired Preset Light Level.
3. Rapidly tap the pushbutton on the 7-Button Controller **five** times.
4. The WS1D's lighting load will flash one time to indicate that it has stored the new Preset Light Level.

### OPERATION

Once installed and configured the KPCx7 will operate with the stored configuration settings. Single-tap, double-tap, hold, or release the pushbuttons to transmit a preset command onto the powerline. Refer to the 7-Button Specification Document

(available for download at [www.PulseWorx.com](http://www.PulseWorx.com)) for more details about the keypad operation.

### Backlit Push Buttons

Each of the six pushbuttons has a blue LED behind it to provide back-lighting and to indicate when loads or scenes are activated. By default, the back-lighting is enabled and pressing a pushbutton will cause it to illuminate brighter than the others.

### Keypad Lockout Feature

A lockout feature is available to temporarily lock the keypad pushbuttons when throwing parties or guarding against young children playing with the lighting. To activate the keypad lockout: simultaneously press and hold the **Scene 2, 3, 4, and Off** buttons for about 3 seconds. All LED indicators will extinguish and future presses of the buttons will have no effect. To disable the keypad lockout: simultaneously press and hold the **Scene 2, 3, 4, and Off** buttons again for 3 seconds. The KPCx7 will reset and again respond to button presses.

### Factory Default Settings

To restore the following default settings put the KPCx7 into SETUP mode and then simultaneously press and hold the **Scene 2** and **OFF** buttons for about 3 seconds. The **Scene 1** and **OFF** indicators will light up to indicate that factory defaults have been restored.

<b>Network ID:</b>	255
<b>Unit ID:</b>	0073
<b>Network Password:</b>	1234
<b>Receive Sensitivity:</b>	High
<b>Transmit Count:</b>	Twice
<b>LED Options:</b>	Backlight enabled/ High
<b>Scene 1 Button Mode:</b>	Link 1: Link Activator
<b>Scene 2 Button Mode:</b>	Link 3: Link Activator
<b>Scene 3 Button Mode:</b>	Link 4 Link Activator
<b>Scene 4 Button Mode:</b>	Link 5: Link Activator
<b>OFF Button Mode:</b>	Link 2: Off Button
<b>UP Button Mode:</b>	Last Link: Bright Button
<b>DOWN Button Mode:</b>	Last Link: Dim Button
<b>LED Presets:</b>	Standard 7-Button

### LIMITED WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in materials and workmanship for a period of five years from the date of purchase. Refer to the warranty information on the PulseWorx page ([www.pcslighting.com](http://www.pcslighting.com)) for exact details.



The Inventors Of:



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