Wall Dimmer   Model WR-001

1. INTRODUCTION

Thank you for your purchase of a SkylinkHome™ lighting receiver, Wall Dimmer, Model WR-001. Simply replace your existing wall switch with this Wall Dimmer, you can then wirelessly turn on and off, dim and brighten lights with a SkylinkHome™ transmitter.

The Wall Dimmer WR-001 can communicate with up to 8 transmitters, so user has the option to add more transmitters to the system, such as more remote controls, or motion sensors etc.

All wireless signal communications within the SkylinkHome™ System are based on rolling code technology to ensure highest security is used.

The following items are included in this package:

- Wall Dimmer
- Wire nuts
- User's Instructions

Wall Dimmer WR-001

Wire nuts

2. SETUP

Setup of the Wall Dimmer is simple. Simply replace your existing wall switch by the Wall Dimmer.

CAUTION ⚠
Installation is required and enclosed instructions must be followed carefully to all steps and notes. If you are uncertain or uncomfortable performing this installation, please consult a qualified electrician. This manual should also be retained for future reference.

1. Turn off power to the circuit that you plan on installing the Wall Dimmer to at the circuit breaker.
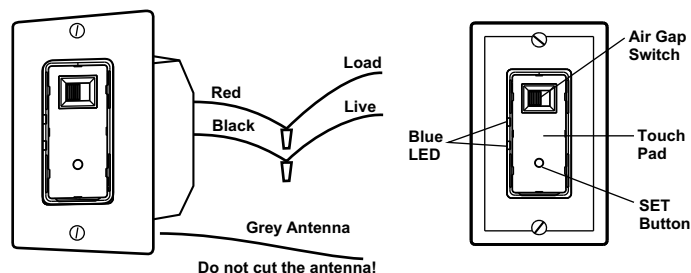
WARNING⚠
Failure to turn off power at the circuit breaker can result in electrical shock causing severe or fatal injury.

Note: Lighting Load

The Wall Dimmer is designed to operate incandescent light or dimmable compact fluorescent light with a maximum load of 600W at 120VAC. Light bulbs must be dimmable in order to achieve dimming function.

2. Follow the diagrams below to install the Wall Dimmer with the 2 wires: Live, Load. Use the provided wire nuts to connect these wires respectively to the existing wires from the wall : Load(Red) to load and Live(Black) to live..
3. After all the wires are connected, ensure that all of the wire connectors are attached securely and there should be no exposed copper wiring. Secure the Wall Dimmer with the provided screws.
4. Place the air gap switch to off position.
5. Turn the circuit breaker back on.
6. Place the air gap switch to on position. The two blue LEDs will be on.
7. The light connected will be off. The Wall Dimmer is now installed and you can tap the metal touch pad to turn ON/OFF the connected light or to begin programming to learn transmitters into the Wall Dimmer.

Load **Air Gap Switch**
Red
Live
Black
Blue LED **Touch Pad**
Grey Antenna **SET Button**
Do not cut the antenna!

Note:
Antenna (grey wire) -- Do not cut it, keep it as straight as possible. Put the antenna directly into the dry wall or through a hole of the metal box into the dry wall to get more control distance with a remote.

3. PROGRAMMING TRANSMITTERS (TC SERIES) / SENSORS

In order to operate the Wall Dimmer remotely with a transmitter or sensor, it must be programmed to the Wall Dimmer. Each module can be operated by up to 8 different transmitters (or 8 different command signals).
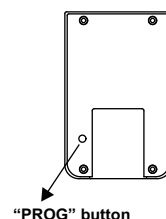
There are 3 operating modes with the Wall Dimmer :

1) Regular Mode - When a valid signal is received, it will turn on or off the light, or change the brightness of the light.

2) Flashing Alert Mode - When a valid signal is received, the light will flash for a specific period of time, which is the time defined in the timer duration. This works as an alert indication.

3) Countdown Timer Mode - When a valid signal is received, the light will be on for a specific period of time, 1 minute, 5 minutes, 15 minutes, 30 minutes, or 60 minutes. This is mainly for energy saving.

You can program multiple buttons/transmitters / sensors to the module and different button/transmitter / sensor can activate a different mode.

To program a TC series transmitter into the Wall Switch Dimmer under regular mode, follow the instructions below:
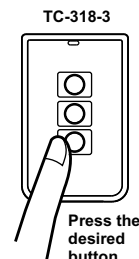
1. Wall Dimmer must be installed and powered properly. Touch the touch pad. The connected light should be on, and the 2 blue LEDs are off.
2. Press and hold the "SET" button for about 3 seconds, until the upper blue LED flashes quickly.
3. You may now release the "SET" button. The blue LED will continue to flash quickly for about 15 seconds.

Operating Mode	Upper LED Indication
Regular	Flashes quickly
Flashing Alert	Flashes slowly
Countdown Timer	Steadily On

"PROG" button

4. Within 15 seconds, follow steps A) to C).
   A). Press the PROG button on the back of the TC transmitter with a sharp object..
   B). Press the button on the TC transmitter that you would like to program.
   C). Once the transmitter is programmed, the two blue LEDs on the Wall Dimmer flash quickly then stop flashing, indicating you have successfully programmed the transmitter to the module. Now the programmed transmitter button is ready to be used for Regular Mode.

TC-318-3

Press the desired button

To program a TC series transmitter into the Wall Switch Dimmer under Flashing Alert Mode, follow the instructions below:

1. Wall Dimmer must be installed and powered properly. Touch the touch pad. The connected light should be on, and the 2 blue LEDs are off.
2. Press and hold the "SET" button for about 9 seconds, until the upper blue LED flashes slowly.
3. You may now release the "SET" button. The blue LED will continue to flash slowly for about 15 seconds.
4. Within 15 seconds, follow steps A to C.
   A. Press the PROG button on the back of the TC transmitter with a sharp object.
   B. Press the button on the TC transmitter that you would like to program.
   C. Once the transmitter is programmed, the two blue LEDs on the Wall Dimmer flash quickly then stop flashing, indicating you have successfully programmed the transmitter to the module. Now the programmed transmitter button is ready to be used for Flashing Alert Mode.

To program a TC series transmitter into the Wall Switch Dimmer under Countdown Timer Mode, follow the instructions below:

1. Wall Dimmer must be installed and powered properly. Touch the touch pad The connected light should be on, and the 2 blue LEDs are off.
2. Press and hold the "SET" button for about 15 seconds, until the upper blue LED will be steadily on.
3. You may now release the "SET" button. The blue LED will continue to be on for about 15 seconds.

4. Within 15 seconds, follow steps A) to C).
   A). Press the PROG button on the back of the TC transmitter with a sharp object.
   B). Press the button on the TC transmitter that you would like to program.
   C). Once the transmitter is programmed, the two blue LEDs on the Wall Dimmer flash quickly then stop flashing, indicating you have successfully programmed the transmitter to the module. Now the programmed transmitter button is ready to be used for Countdown Timer Mode.

To program other transmitters/sensors, please refer to the instructions of those transmitters/sensors and above instructions.

Note: You must complete the programming sequence within the 15-second interval, otherwise, the Wall Dimmer will quit from programming mode and you need to start again from step 1.

4. SET TIMER DURATION

As mentioned, the timer can be set to the following durations, 1 minute, 5 minutes, 15 minutes, 30 minutes, or 60 minutes.

This timer duration is used for both under Flashing Alert Operating Mode and Countdown Timer Operating Mode.

There is only one timer setting, so all transmitters that are programmed for timer mode and flashing mode will have the same timer duration. To set the timer duration, follow the instructions below:

1. Wall Dimmer must be installed and powered properly. The connected light should be off, and the 2 blue LEDs are on. The light must be off in order to set the timer duration.
2. Press and hold the SET button for 3 seconds, the lower blue LED flashes once. The number of flashes indicates the timer duration:

Number of Flashes	Timer Duration
1	1 min.
2	5 min.
3	15 min.
4	30 min.
5	60 min.

3. Continue to hold the SET button until it reaches the desired setting. The status will change every 6 seconds, i.e. hold the SET button for another 6 seconds, you will see the number of flashes changes from 1 to 2, 2 to 3, etc.

Note: Once the number of flashes reaches 5, it will stay at this setting. If you would like to go back to other settings, such as 1 minute, release the button and repeat from step 1 to start over.

Once a transmitter (button) is programmed for timer mode or flashing mode, activating this programmed transmitter (button) will turn on the light for the specified timer duration.

During a timer count down, if the Wall Dimmer receives another signal for timer operation, the timer will start again and overrides the previous timer, therefore, extending the On period by another timer interval.

To stop timer count down, press a programmed button for regular mode.

5. REGULAR OPERATING MODE

The Wall Dimmer can control the light in 2 different operating modes:

1) On / Off Mode - Allows operating the light either on or off, without dimming function.

2) Dimming Mode - Allows operating the light in on, off or dimming (dim / brighten). Light source must be either incandescent light or dimmable compact fluorescent light.

The factory default operating mode is On/Off mode. However, if your light is dimmable, you may change the operating mode to Dimming Mode. To change the operating modes, please follow the instructions below:

1. Turn on the light by the programmed transmitter or touch pad.
2. Press and hold the button on the transmitter that is programmed to the Wall Dimmer for 10 seconds or touch the touch pad for 10 seconds with your finger..
3. The light will flash. If it flashes once, that means it is in On / Off Mode. If it flashes twice, that means it is in Dimming Mode.
4. Repeating step 2 above will toggle the setting between On / Off Mode and Dimming Mode.

5.1 ON / OFF operation:

Use the Wall Dimmer
To turn on / off the light, simply tap the touch pad of the wall dimmer once with your finger, it will toggle the status of the light, i.e. from on to off or from off to on.

Use a Transmitter
Wall Dimmer allows on / off operation, when the programmed button is pressed, it will transmit a signal to toggle the status of the load. For example, if a toggle signal is received when the light is off, that signal will turn on the light.

If you have a deluxe remote, you can make sure that you will actually turn on a light by pressing [🔆] first, then the programmed button. Similarly, you can make sure that you will turn off a light by pressing [💡] first, then the programmed button.

If you have a deluxe remote and you press [🏠], all those receivers to which the remote is programmed will turn on their loads. If you press [🏠], all those receivers to which the remote is programmed will turn off their loads.

5.2 Brightness control operation:

Besides turning on and off the light, you may also control the brightness of the light if the light bulb is either incandescent light or dimmable compact fluorescent light.

Use the Wall Switch
Turn on the light first. Then keep touching the touch pad to change the brightness. Remove your finger from the touch pad until the desired brightness is reached. To change the brightness in the opposite way, remove your finger from the touch pad and then keep touching again, remove the finger from the touch pad until the desired brightness is reached.

Use a Transmitter
First turn on the light.

Then press and hold the programmed button on the transmitter to change the brightness. Hold the button until the desired brightness is reached, then release the button.

Press and hold the same button again on the transmitter to change the brightness again in the opposite way. When the desired brightness is reached, release the button.

Note: Press and hold for more than 10 seconds will toggle the mode between ON/OFF and Dimming.

6. FLASHING ALERT OPERATING MODE

If a transmitter or a sensor is programmed to the Wall Dimmer under the flashing alert mode, when that transmitter is activated, the light connected will flash for the predetermined timer interval. The brightness of the light can only be set under regular mode. After the timer interval, the light will be off.

Pressing a programmed button for regular mode can override flashing alert operation.

7. COUNTDOWN TIMER OPERATING MODE

If a transmitter or a sensor is programmed to the Wall Dimmer under the countdown timer mode, when that transmitter is activated, the light connected will be on for the predetermined timer interval. The brightness of the light can only be set under regular mode. After the timer interval, the light will be off.

Pressing a programmed button for regular mode can override countdown timer operation.

8. ZONE OPERATION

An optional deluxe remote is needed for zone operation. A Zone Command allows you to operate multiple lights altogether in the same zone.
A zone command must first be programmed to the receiver before zone operation. To program a zone command, please refer to the user's instructions of the deluxe remote.

Zone Operation - On / Off

To turn on or off a zone, hold [💡] or [💡] until the red LED flashes three times and keeps on, then release the held button and press the zone number.

For example:

Hold [💡] until the red LED flashes three times and keeps on, then release [💡] and press [1], all lights in zone 1 will be turned on.

Hold [💡] until the red LED flashes three times and keeps on, then release [💡] and press [1], all lights in zone 1 will be turned off.

Zone Operation - Brightness Control

You can also change the brightness of lights in a zone altogether, if the receiver modules and all lights connected are dimmable. If non-dimmable lights or appliances are connected to a zone, do not operate Zone Brightness Control.

For example:

Hold [💡] until the red LED flashes three times and keeps on, then release [💡] and hold [1] , all lights in zone 1 will be brightened, you may release [1] at the desired brightness level.

Hold [💡] until the red LED flashes three times and keeps on, then release [💡] and hold [1] , all lights in zone 1 will be dimmed, you may release [1] at the desired brightness level.

9. ERASING TRANSMITTERS FROM THE MODULE

You may erase a transmitter or sensor from the wall dimmer, but you cannot erase a specific device directly, you must erase all the wireless devices, then program the ones you want to keep. Follow the instructions below to erase programmed transmitters / sensors.

1. Power off the Wall Dimmer by placing the air gap switch to off position.
2. Press and hold the SET button, while holding the SET button, slide the air gap switch to on position.
3. The blue LEDs will be on first, then flashes rapidly for 1 second.
4. You may release the SET button, now you have successfully erased all the devices.

10. TECHNICAL SPECIFICATIONS

Input Voltage: 120V AC, 60Hz
Standby Current: 0.2mA
Minimum Load: 10W
Maximum Load: 600W at 120VAC
Operating Frequency: 318MHz
Operational Temperature: -4° F - 140° F (-20° C - 60° C)
Humidity: 5%-95%
Range: Up to 500 feet in open area

11. FCC

The Device is approved by the FCC and it complies with Part 15 of the FCC Rules.
Its operation is subject to the following two conditions :
1. This device may not cause harmful interference.
2. This device must accept any interference that may cause undesired operation.

WARNING:
Changes or modifications to this unit not expressly approved by the party responsible of compliance could void the user's authority to operate the equipment.

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CUSTOMER SERVICE
17 Sheard Avenue, Brampton, Ontario, Canada L6Y 1J3
Email:support@skylinkhome.com
http://www.skylinkhome.com

12. WARRANTY

If, within one year from date of purchase, this product should become defective (except battery), due to faulty workmanship or materials, it will be repaired or replaced, without charge. Proof of purchase and a Return Authorization are required.

13. CUSTOMER SERVICE

If you would like to
- find out the up-to-date specifications
- know more about features and applications
- download documents, i.e. user's instructions
- order Skylink products

or if you have difficulty getting products to work, please:
1. visit our FAQ section at www.skylinkhome.com, or
2. email us at support@skylinkhome.com, or
3. call our toll free at 1-800-304-1187 from Monday to Friday, 9 am to 5 pm EST.
Fax (800) 286-1320

14. ACCESSORIES

The SkylinkHome™ System consists of many other devices such as SkylinkHome™ Remotes, Motion Sensor, ON/OFF Wall Switch, Wall Dimmer, Plug-In Dimmer with or without Repeater, Plug-In ON/OFF Control (Outdoor/Indoor), Screw-In Dimmer, ON/OFF/Dimming Control, ON/OFF Control, Smart Button™ Garage Door Control, etc. Please visit Skylink website at www.skylinkhome.com for more information.

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