



SYGS Operations Manual



Synergy SYGS
Graphical
Control Station
Operations Manual

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INTRODUCTION

This manual contains instructions needed to configure your remote, wall-mounted Synergy Graphical Control Station, or SYGS, and to modify initial factory settings.

The SYGS is an architectural lighting-control station that allows you to program and recall various light levels. The available settings will allow your system to meet a wide variety of applications.

The SYGS is operated by menus and buttons displayed on an easy-to-use, touchscreen graphic keypad. Using this keypad, you can control lighting attributes (fade times, levels) of multiple targeted lighting groups (called Presets or Scenes), by adjusting multiple lighting circuits (called Channels or Zones) within each targeted group.

The SYGS Graphical Control Station you have purchased was engineered to provide years of reliable operation for commercial applications. If assistance beyond the scope of this manual is required, contact Synergy Lighting Controls.

NOTE: Operational Requirement

The SYGS is dependent on the Synergy controller to provide preset and channel functions. The SYGS must be programmed through the Synergy controller before it will provide any functionality. Please refer to Synergy Config instructions for station setup instructions.

When the touchscreen is initially powered on, the Logo screen will appear, showing the Synergy Lighting Controls logo (Fig. 1).

Slide your finger firmly across the bottom area of the screen to move to the Home Page of the SYGS Graphical Control Station (Fig. 2).

NOTE: A pen or other stylus-like instrument will also work; the SYGS is not temperature-sensitive.

Fig. 1



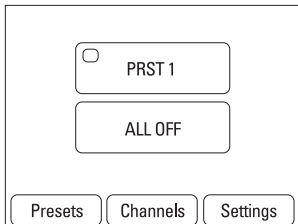
Understanding Presets/Scenes and Channels/Zones

Presets: Also identified as **Scenes**, Presets consist of a set of lighting levels with an associated fade time. PRESET buttons save and activate Preset lighting scenes. To create a Preset (up to 16), set the appropriate intensity for each of its selected Channels (definition follows).

Channels: Also identified as **Zones**, Channels are groups of specific circuits of lights prescribed to each Preset according to common characteristics, such as location or function. Arrow buttons on the Channel screens raise or lower the intensity of the associated lights.

Fade Time: Fade Time indicates how long it takes the lights to adjust to the new intensity levels when each Preset is selected.

Fig. 2



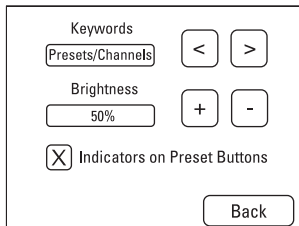
The Home Page is the master control screen for targeted lighting **Presets/Scenes** and their respective **Channels/Zones**, beginning with **Preset**

1. **IMPORTANT:** For purposes of this manual, the terms Presets and Channels will be used throughout. To modify the terminology:

- Select **SETTINGS**, then **OPTIONS** to get to the Options screen (Fig. 3).
- Toggle the **KEYWORDS** section using the < or > buttons until you get the combination you prefer. The options are:
 - Presets/Channels
 - Presets/Zones
 - Scenes/Channels
 - Scenes/Zones

To save your selection, tap the **BACK** button at the lower right, then tap **SAVE**. You will be returned to the SYGS Home Page. Tap **CANCEL** to return to the Home Page without saving the settings (you will be prompted to confirm this action).

Fig. 3



OVERVIEW OF THE SYGS

OVERVIEW OF THE SYGS

Home Page Features

Top Button. This button is Preset button 1. This is typically used as entry lighting.

Bottom Button. This master-control button turns off all lights in all Channels. Note that on a station configured with 0 channels, this button is Preset button 2. If you wish to have it turn off the lights, Preset 2 will need to be set as an off Preset.

Presets. Presets are the preset light levels and fade times stored in the SYGS. The PRESETS button on the SYGS Home Page (Fig. 2) changes the keypad view to the initial Presets control screen (Fig. 5). Each Presets screen provides four Presets at a time, up to 16. Toggle through each set of four by using the NEXT or PREV buttons, or by using the PAGE 1 button to return to the first set of Presets. From Page 1, you can then return to the SYGS Home Page, or by tapping CHANNELS you can move to the Channels screen.

Fig. 2

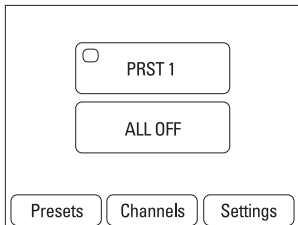
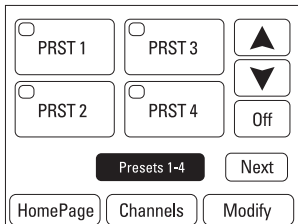


Fig. 5

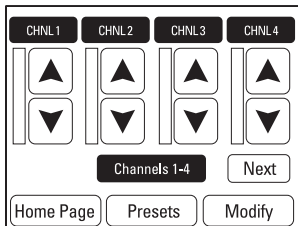


To **create a Preset**, select one of the 16 available buttons. Select the **MODIFY** button. From here you can begin selecting and programming levels for multiple channels by selecting the **ADJ LEVELS** button. When selections have been made, press the "Return" button and then press the **SAVE** button.

To **recall a Preset**, simply press the pre-programmed button for the lighting scene you wish to activate.

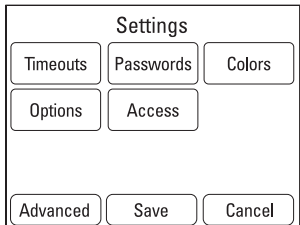
Channels. The **CHANNELS** button changes the keypad view to the Channels controls screen (Fig. 6). Each Channels screen provides four Channels at a time, up to 32. Page through each set of four by using the **NEXT** or **PREV** buttons, or by using the **PAGE 1** button to return to the first page of Channels. From Page 1, you can then return to the **SYGS Home Page**, or by tapping **PRESETS** you can move to the **Presets** screen.

Fig. 6



Settings. The SETTINGS button changes the keypad view to the Settings control screen (Fig. 7). From this screen, a wide variety of system preferences can be edited. To save your selections, be sure to tap the BACK button at the lower right and tap SAVE.

Fig. 7



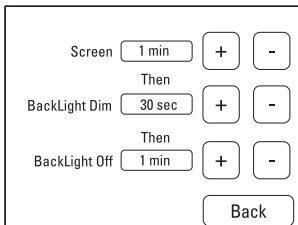
SYGS Settings

NOTE: Features on the Settings screens must be saved to take effect. After selecting your setting preferences, tap the BACK button at the lower right, then tap SAVE. You will be returned to the SYGS Home Page. Tap CANCEL to return to the Home Page without saving the settings (you will be prompted to confirm this action).

Timeouts. NOTE: Timeouts on the SYGS screen are sequential. Using the + or – buttons on the Timeouts screen (Fig. 8), select the amount of time (5 to 45 seconds; 1 to 60 minutes) for the SYGS to perform the following functions **in order**:

1. Screen: Automatically changes keypad view to Logo Page.
2. Backlight Dim: Automatically dims keypad's backlight once on Logo Page.
3. Backlight Off: Automatically turns off the keypad's backlight once dimmed.

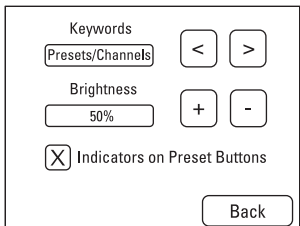
Fig. 8



Options. The Options screen (Fig. 3) allows you to set the terminology for your use of the SYGS unit. See Page 6 for more information. Also, the Options screen gives you the ability to adjust the brightness of the SYGS display (Fig. 3). Using the + or – buttons, adjust the screen brightness level from 20% to 100%.

In addition, the Options screen allows you to place an LED-like indicator on each of the Preset buttons by placing an X in the blue box at the bottom left of the screen. Indicator lights provide visual reference to each Preset status.

Fig. 3



Passwords. This setting gives you options (Fig. 10) to set a 4-digit User Password a 4-digit Setup Password, and a 4-digit Admin Password.

1. To enter passwords for each, tap the password-field buttons to move to a set of touchscreen keyboards, alpha or numeric.
2. Toggle between the alpha and numeric keyboards (Fig. 11) using the lower, right-hand buttons on each screen.
3. After entering your selected passwords, tap the OK button to proceed or the CANCEL button to cancel the action.
4. Tap the BACK button and SAVE your selection(s).

NOTE: Carefully record and keep your password in a secure location. Reset of station will not clear user passwords.

Fig. 10

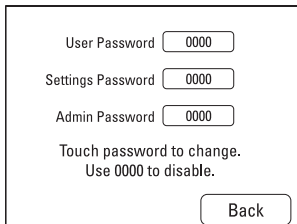
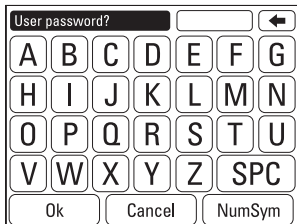


Fig. 11



Important: To initiate the password protections, allow the SYGS to cycle through its Timeouts.

Passwords subsequently will be required to perform tasks specific to each security level. The security levels are as follows:

User Password:

- Locks out all functions (presets, channels, modify presets, settings)

Settings Password:

- Locks out setting screen
- Optional lockout for Preset Modify function

Admin Password:

- Locks out ability to modify station address
- Locks out password screen

Access. The Access screen (Fig. 12) presents five options for managing fundamental operations of the SYGS. Tap the button beside each option to place or remove an X from the buttons. An X appearing indicates the function is active. NOTE: Setting changes must be saved to take effect.

Swipe to Unlock:

Creates a moderate level of security by requiring users to swipe firmly with a finger across the bottom of the Logo screen to activate the SYGS. In off mode, the SYGS is activated by touching anywhere on the screen.

Timeout to Logo Screen:

Resets the SYGS to the Logo screen once the Timeout settings are reached. In off mode, no logo appears.

Home Page is Default:

Sets the Home Page as the screen default after most commands. In off mode, the SYGS defaults to the initial Presets control screen (Fig. 2).

Fig. 12

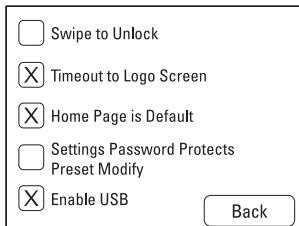
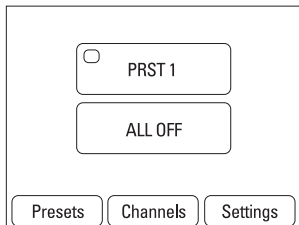


Fig. 2



Settings Password Protects Preset Modify:

Used to prevent unauthorized use of the SYGS for setting Presets and/or Channels. In the on mode, the SYGS requires a Setup Password (see Page 16 about setting Password) to access Presets/Channels. In off mode, the SYGS allows access to Presets and/or Channels while maintaining password protection for Settings.

P: To initiate password protections, allow the SYGS to cycle through its Timeouts.

Enable USB:

The SYGS is fitted with a Micro-B USB port for data access via a connecting cable. This allows you to update the unit's firmware using your computer. For example, you can replace the Synergy Lighting Controls logo with a custom logo (see Page 31). Data corrections also can be made, if necessary.

Steps for updating the firmware:

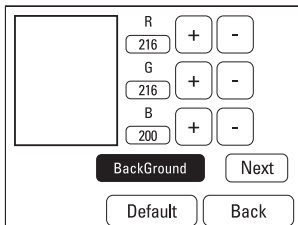
1. Connect the SYGS to a computer using a Micro-B USB cable.
2. After the computer recognizes the connection, edit data file as needed.
3. When updates are completed, drag edited file to the SYGS.
4. Before disconnecting the SYGS from your computer, click "REMOVE HARDWARE FROM COMPUTER" prompt, then disconnect.
5. Unplug the SYGS to remove power.
6. Wait briefly for the data to update.

Colors. This feature (Fig. 13) allows you to customize the colors representing each SYGS display element. Following the RGB color scale, use the + or - buttons to adjust the values of the red, green or blue for the elements shown on the button in the center of the screen. Use the PREV or NEXT buttons to toggle through:

- Background
- Background text
- Preset normal
- Preset press
- Preset LED on
- Preset LED off
- Preset text
- (Channel) Bargraphs
- Button normal
- Button press
- Button text
- Button disabled
- Button disabled text

The DEFAULT button returns the color schemes to the manufacturer's color settings.

Fig. 13



Advanced. The Advanced screen (Fig. 14) adjusts fundamental modes of the SYGS and provides some diagnostic information and tools. *NOTE: You will be asked to confirm the resetting of those items that affect the basic operation of the SYGS.*

About:

This screen (Fig. 15) provides information about the SYGS firmware.

Status:

The Status screen (Fig. 16) provides information about SYGS for up to 60 (0-59) unique Addresses. These listed Addresses refer to the available locations on the Synergy System A4 Network. Use the NEXT or PREV buttons to toggle through the 60 Address locations to find information relevant to each SYGS device, or tap the PAGE 1 button to return to the initial Status screen.

Fig. 14

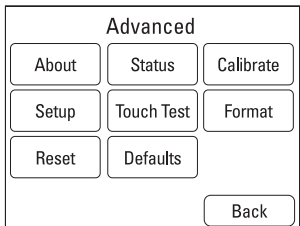
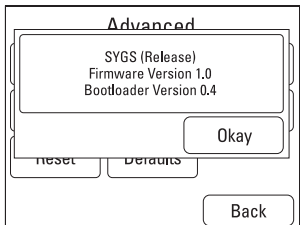


Fig. 15



Calibrate/recalibrate SYGS touchscreen (Fig. 17):

The calibration process begins with a touch of the initial screen, followed by a sequence of screens requiring you to touch the crosshairs appearing on the screens. Accurate touching of the crosshairs resets the screen calibration accurately. This function does not affect data. Once calibration is completed, the view is returned to the Logo screen.

NOTE: If the calibration is set inaccurately, allow the screen to time out to the Logo screen and/or fade out. Then, press the screen firmly and continuously for 30 to 45 seconds to force a recalibration.

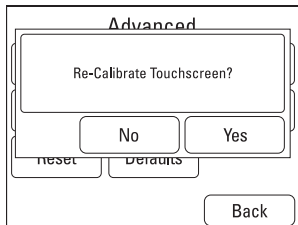
Fig. 16

	Packets	ACKS	NAKS
CS0	1242	0	0
CS1	1242	1242	0
CS2	1227	0	0
CS3	1228	0	0
CS4	1229	0	0
CS5	1230	0	0

Stations 0-5 Next

Clear Page 1 Back

Fig. 17



Setup:

The Setup screen (Fig. 9) is the master control for specifying the Address location of the SYGS (up to 60) for use on the A4 Synergy System network. For users with legacy system hardware, it also allows you to specify the number of Presets (up to 16) and Channels (up to 32) to be configured.

NOTE: The Legacy Compatible prompt (blue box) must be marked with an X to allow control of the Presets and Channels for users with Legacy System hardware. Legacy Systems can be defined as a Synergy Lighting Control System running controller firmware 2.65 or earlier. To enable the use of the SYGS with a Legacy System select the Legacy Compatible prompt and choose the number of Presets and Channels configured through your controller.

Fig. 9

The screenshot shows a configuration interface with the following elements:

- Address:** A numeric input field containing '1', followed by '+' and '-' buttons for incrementing and decrementing the value.
- Presets:** A numeric input field containing '8'.
- Channels:** A numeric input field containing '4'.
- Legacy Compatible:** A checkbox that is currently unchecked, followed by the text 'Legacy Compatible'.
- Back:** A rounded rectangular button labeled 'Back'.

Reset the SYGS:

Reset the SYGS in the event the SYGS malfunctions; returns the view to the Logo Screen.

Format/reformat SYGS eeprom (memory) settings (Fig. 18):

In the event that the eeprom becomes corrupt, this will erase and reformat the eeprom. All current settings will be saved back to the eeprom and any custom logo page will be erased.

Restore factory setting defaults (Fig. 19):

This function restores basic factory settings to the SYGS but does not erase modified Preset/Channel configurations, or passwords.

Fig. 18

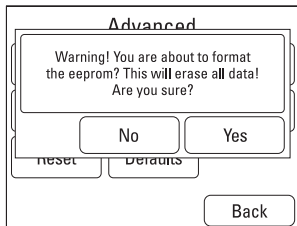
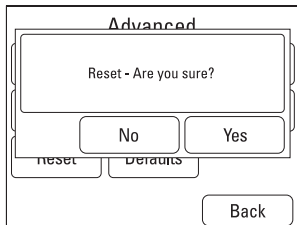


Fig. 19



BASIC OPERATION OF THE SYGS

BASIC OPERATION OF THE SYGS

Once lighting levels have been programmed and saved, they can easily be recalled by pressing the Preset button you wish to activate. An LED in the upper left hand corner indicates which Preset button is currently active (if enabled) or the button color will indicate the active Preset if LEDs are not enabled. If a temporary modification is desired, the ^ or v arrow buttons will adjust the lighting level.

NOTE: The method for modifying all Presets and Channels is the same. Preset- and Channel-setting features must be saved to take effect. After selecting setting preferences, tap the BACK button at the lower right, then tap SAVE. You will be returned to the Presets control screen. Tap CANCEL to return to the Presets control screen without saving the settings (you will not be prompted to confirm this action).

Modifying a Preset

1. Select the Preset you want to set/modify by using the PREV or NEXT commands from the Presets control screen (Fig. 5).
2. Once you have reached the chosen Preset, tap the MODIFY button to view the Modify screen (Fig. 22).
3. Use the + or – buttons to the right of the Presets window to toggle to another Preset. Or, adjust the Fade Time setting by using the + or – buttons to the right of the Fade Time window. This feature can be set from 0 seconds to 60 minutes, and serves as a master light-fading command for all Channels within each respective Preset.

IMPORTANT NOTE: For Presets that have not yet been programmed, the SYGS displays the current Channel settings.

Fig. 5

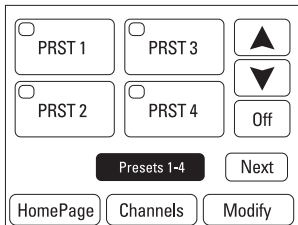
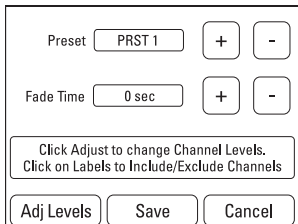


Fig. 22



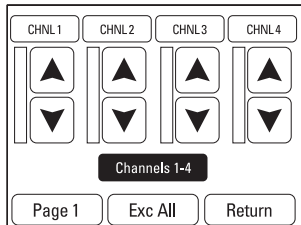
Adjusting and Including/Excluding Channels

Within any selected Preset, use the ADJ. LEVELS button on the Modify screen to view the Adj. Level control screens.

1. Select the Channel you want to set/modify by using the PREV or NEXT commands from the Channels control screen(s) (Fig. 23).
2. Modify the Channels you want to set/modify by pressing the ^ or v arrow buttons to reach the preferred light level.
3. Once the Channels settings have been made, tap the MODIFY button to return to the Presets controls screen, and press SAVE to protect your new settings.
4. To exclude specific Channels from the Preset you are programming, tap the white window containing the name of the Channel so that it turns black with white lettering (in colors-default mode). To exclude all Channels, tap

the EXC. ALL button in the middle of the lower part of the Channels control screen. The intensity of Channel(s) excluded remains unchanged when their respective Presets are activated.

Fig. 23



Duplicating Channel Settings

Channel settings may be duplicated for multiple Presets, which then affect the indicators for each Preset of which they are a part. For example, setting Preset 1 and Preset 10 with the same Channel configurations will cause the LED indicators on those Presets to behave similarly on their Preset control screens.

1. To easily duplicate Channel settings, set the initial Preset to be duplicated.
2. When viewing that Preset's Modify screen, toggle to reach the number of the Preset you want to have the same settings using the + or – buttons.
3. Once you reach the number of the Preset you're programming with the same Channel setting as the initial Preset, hit the SAVE button.
4. Follow this procedure for all Presets you wish to have the same Channels settings as the initial Preset.

CUSTOMIZATION OPTIONS

Adding a custom logo

On the Logo screen of the SYGS unit is the Synergy Lighting Controls logo. To replace this logo with your own logo, you must first connect the SYGS to your computer. Then, use the SYGS Logo Maker application to create the logo file you'll need so that it can be uploaded into the SYGS firmware. The SYGS Logo Maker application is available on the Synergy Lighting Controls Web site (www.synergylightingcontrols.com).

Steps for updating the firmware to add a custom logo:

1. Connect the SYGS to a computer using a Micro-B USB cable.
2. After the computer recognizes the connection to the SYGS, navigate to the Synergy Lighting Controls Web site and click on the SUPPORT tab.
3. From there, click on the "SYGS Logo Maker Setup" wizard and double-click on it to open.
4. Follow the instructions in the wizard for installing the SYGS Logo Maker onto your computer.
5. Use the wizard to replace the Synergy logo with your custom logo.
6. When your update is completed, drag the edited logo file (an .RLL file) to the SYGS connected to the computer.
7. Before disconnecting the SYGS from your computer, click "REMOVE HARDWARE FROM COMPUTER" prompt, then disconnect.
8. Unplug the SYGS to remove power.
9. Wait briefly for the data to update.

HOW DO I...

HOW DO I...

A quick reference guide on the most common SYGS functions

How do I ...

recall preset/saved light levels?

To recall a Preset, simply press one of the PRESET buttons, starting with Page 1 of the Preset control screen (Fig. 21). The first button calls up Preset 1; the second, Preset 2; and so on.

modify preset/saved light levels?

Select the Preset you want to set/modify and tap the MODIFY button (Fig. 22) to view the Modify screen. Adjust the Fade Time setting by using the + or – buttons to the right of the Fade Time window.

adjust light levels?

Move to the channels screen by pressing the Channels button. Select the Channel you want to set/modify by using the PREV or NEXT commands

from the Channels control screen(s) (Fig. 23). Modify the Channels you want to set/modify by toggling the ^ or v arrow buttons to reach the preferred light level.

change button labels?

Preset and channel labels can be changed on the Stations tab in the SYSW Config software.

check the firmware version?

The About screen (Fig. 15) provides information about the SYGS firmware. You find this under the Advanced screen (Fig. 14).

determine which Preset is active?

The Preset that is active will be indicated by either an LED in the upper left corner or the color of the button being different.

determine the Channels being controlled?

Each Channels control screen (Fig. 23) shows four Channels that can be controlled from that screen. The text box above each channel indicates its function. The text box below all the channels indicates the actual channel number.

restore factory default programming?

Under Advanced (Fig. 14), use the DEFAULTS button to restore basic factory settings to the SYGS. This does not erase modified Preset/Channel configurations.

TROUBLESHOOTING

There is no power to the SYGS.

Check and verify all A4 network connections and verify the system controller is functioning properly. Refer to the controller operations manual for proper operating and troubleshooting instructions.

There is power to the SYGS, but it's not showing any activity; there is no communication.

Check and verify all A4 network connections and verify the system controller is functioning properly. Refer to the controller operations manual for proper operating and troubleshooting instructions.

There is no error message, but the lights are not properly responding to my settings.

Each device on the A4 network must have a unique address. **DUPLICATE ADDRESSES ARE NOT ALLOWED!** Using duplicate addresses will cause poor system performance, erratic operation and network communication errors. Check the following:

1. Verify the A4 network address for each station.
2. Verify the A4 network is terminated only at each end of the network
3. Verify the A4 network does not have any t-taps.

The SYGS touchscreen is not responding when I touch it.

The screen calibration is not setup. Allow the screen to time out to the Logo screen and/or fade out. Then, press the screen firmly and continuously for 30 to 45 seconds to force a recalibration.

The touch screen is broken.

Please contact Synergy Lighting Controls Technical Service at 800-533-2719 or by e-mail at support@SynergyLightingControls.com.

The USB is not working properly when I connect it.

Do you have the correct adapter for a Micro-B port? Go to setting screen and then select access screen. Ensure that the enable USB box is selected.

FOR ADVANCED USERS

SYGS Wiring

A SYGS (up to 60) communicates to the Synergy System through the Synergy A4 network. Each SYGS on the A4 network must have a unique address. DUPLICATE ADDRESSES ARE NOT ALLOWED.

The A4 Network

The A4 network must be properly terminated for network operation. The network device residing at each end of the network must be terminated. The SYSC system controller is normally located at one end of the network and ships from the factory with termination activated. Refer to SYGS installation instructions for termination instructions.

Please read this manual thoroughly before using this device and keep it handy for future reference.

Important Safety Notice

- This document does not cover installation, service, and maintenance situations. For assistance, contact Synergy Lighting Controls. See contact information below.
- Installation and technical maintenance must be performed by a person familiar with the construction and operation of this product and any hazards involved. All applicable codes and ordinances must be followed.
- Service of the equipment must be performed by qualified service personnel.

Synergy Lighting Controls, a division of Acuity Brands Inc., assumes no responsibility for claims arising out of improper or careless use or handling of this product.

Customer Service

Contact Synergy Lighting Controls Technical Service at 800-533-2719. Synergy Lighting Controls Technical Service is available from 8:00 a.m. to 5:00 p.m. Monday to Friday EST for phone consultation.

Email support:

support@synergylightingcontrols.com

Visit Synergy Lighting Controls on the Internet at <http://www.synergylightingcontrols.com> for further information on products, technical data or installation instructions.

Address:

Synergy Lighting Controls
1440 Lester Rd.
Conyers, GA 30012

Warranty

Synergy Lighting Controls warrants all equipment to be free from defect in manufacturing under normal and proper storage, installation, and operation for a period of three (3) years. Our guarantee liability extends only to the repair or replacement of the defective part and no labor charges for correction of the defect by repair or replacement will be honored by Synergy Lighting Controls unless prior written authorization has been granted by our Customer Service Department.

