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A quick look at the basic functions of the  
Hercules Programmable Controller by



### Basic Manual Operations

- Recall a Preset
- Switch a Relay
- Sweep All Relays

### Basic Programmable Features

- Time Events
- Photocell Events
- Skip Events
- Set Presets
- Holidays
- External Inputs
- Configuration Options
- Sensor Setup

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## Basic Programmable Features

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# *introduction*

Welcome to the How To, the guide to everything Hercules. Let us begin with understanding what this controller can do. The Hercules Programmable Controller allows you to control and automate your Marlin Controls lighting system. Using the Hercules, you can quickly and easily:

- Recall presets and switch relays On or Off
- Set a schedule to automatically recall presets and switch relays
- Use a photocell to automatically recall presets and switch relays based on the amount of available sunlight.
- Create a unique lighting system using the many other functions

This manual will show you how to navigate through the menus and around the keypad and also how to operate the Hercules and how to completely utilize its features.

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# lighting lingo

If this is your first run-in with a Hercules then you'll need to start with a crash course on the vernacular used in the lighting world. Those are "preset," "fade rate" and other words that clearly mean something to a lighting expert, but may mean squat to you.

**Dimmers** are devices used to control or "dim" specified areas of your lighting. They are sometimes referred to as channels.

**Fade rate** refers to the length of time, usually in seconds, that dimmers take to raise or lower lighting from their current levels to the levels of a recalled preset.

**Light level** refers to the brightness of lights controlled by a dimmer measured from 0% to 100%, where 0% represents total darkness and 100% represents maximum brightness.

**Passwords** provide protection for the Hercules functions and come in two levels:

**User Password** allows access to the user level to perform any of the manual override functions, such as recalling presets and turning relays on or off manually.

**Operator Password** allows access to the operator level, which has the same functionality as the user level and additionally allows you to set, preview, and delete time & photocell events, as well as several other functions in the Program Mode.

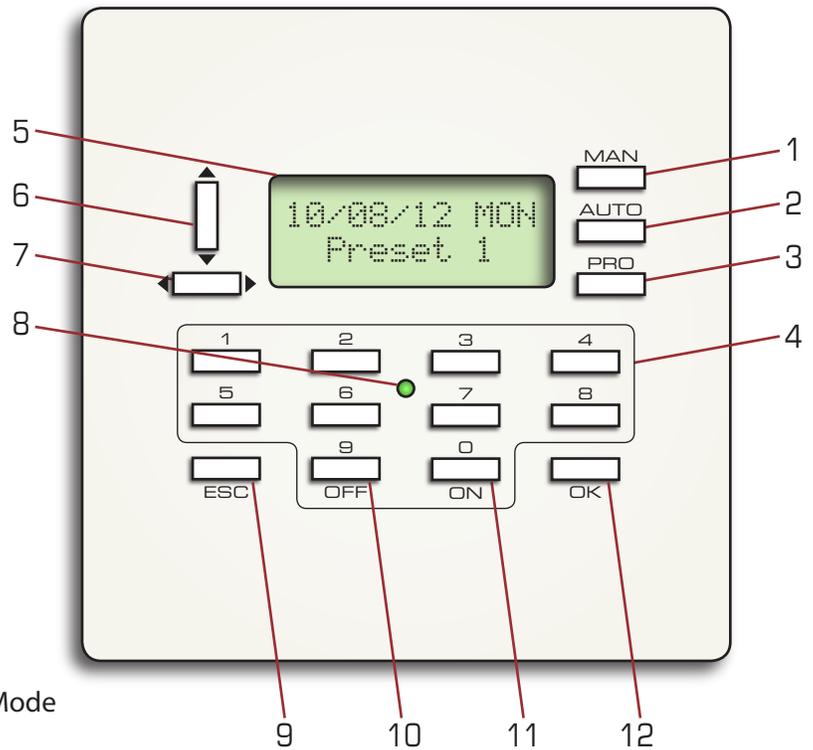
**Photocell** is a physical device, usually installed outdoors, which measures the amount of sunlight. The reading is sent to the Hercules, which can automatically recall a preset or switch relays when a specified photocell reading is received.

**Preset** is a saved set of light levels and fade rates for every channel of lighting being controlled by the system; sometimes called a "scene". By creating presets, you can quickly call up light settings for different times of day or different occasions. Night setting, Day setting, and Clean Up setting are all examples of possible presets.

**Relays**, like dimmers, control specified areas of your lighting, but are only for switching On and Off.

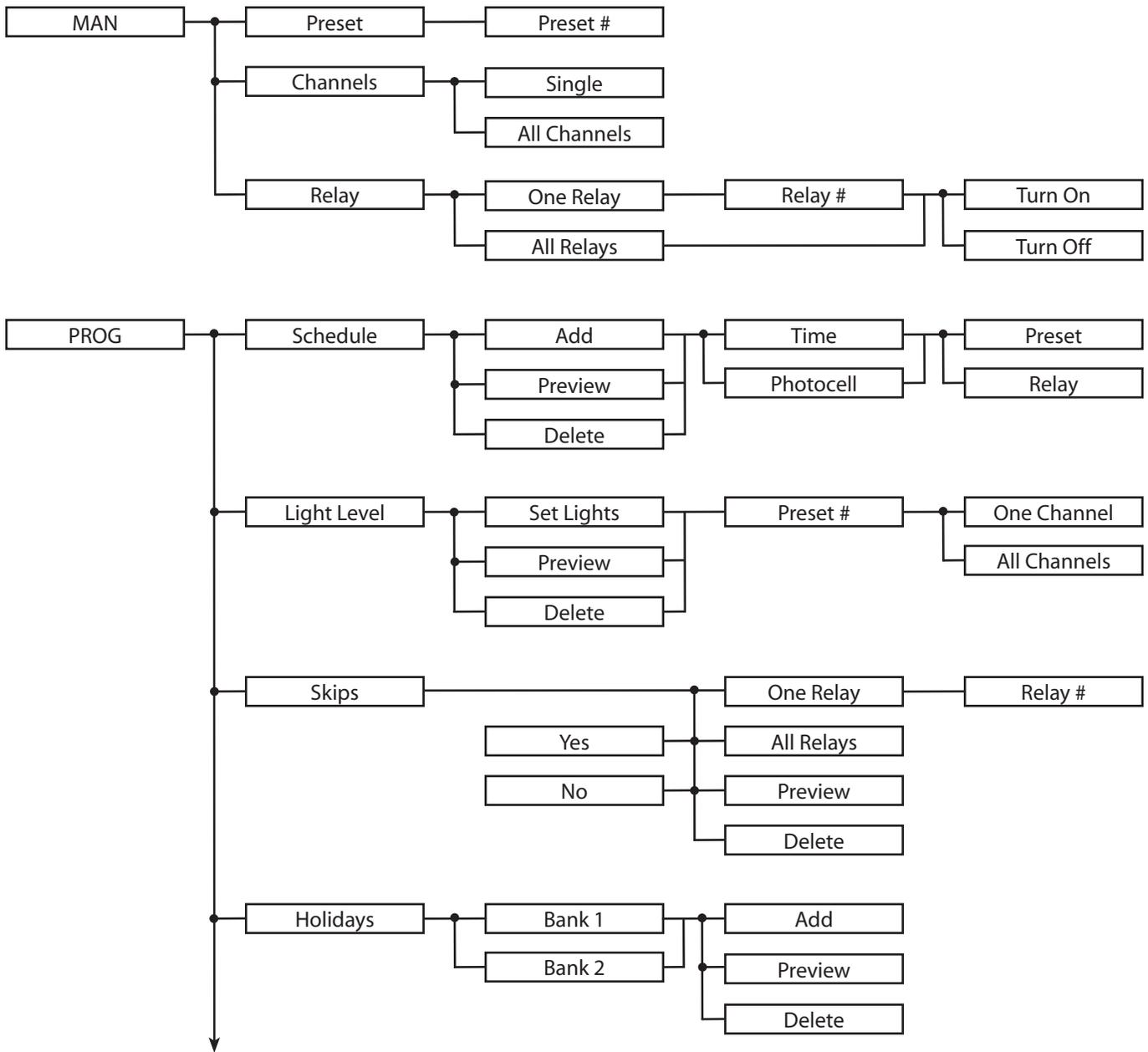
**Zones** are relays that have been grouped together to control a larger area with one controller.

# hercules keypad layout



1. Manual Override Button - Press to enter into Manual Override
2. Auto Mode Button - Press to enter into Auto Mode
3. Program Mode Button - Press to enter into Programming Mode
4. Numerical Keys - Used to enter alphanumeric data
5. LCD Display - 2x12 characters
6. Up/Down Button - Used to scroll through menu options
7. Left/Right Button - Used to move the cursor through text
8. Activity LED - Indicator for power and communication
9. Escape Button - Cancel a selection or go back to the previous menu
10. OFF Button - Used to recall the OFF preset or to turn relays OFF, also used as the #9 key
11. ON Button - Used to recall the ON preset or to turn relays ON, also used as the #0 key
12. OK Button - Make selections or enter data

# hercules menu layout

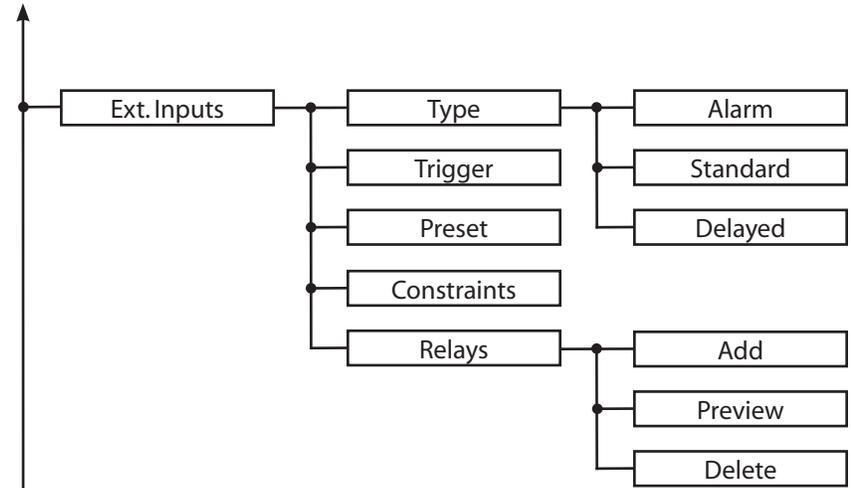


Continue to the next page for the rest of the menu layout

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# hercules menu layout part II

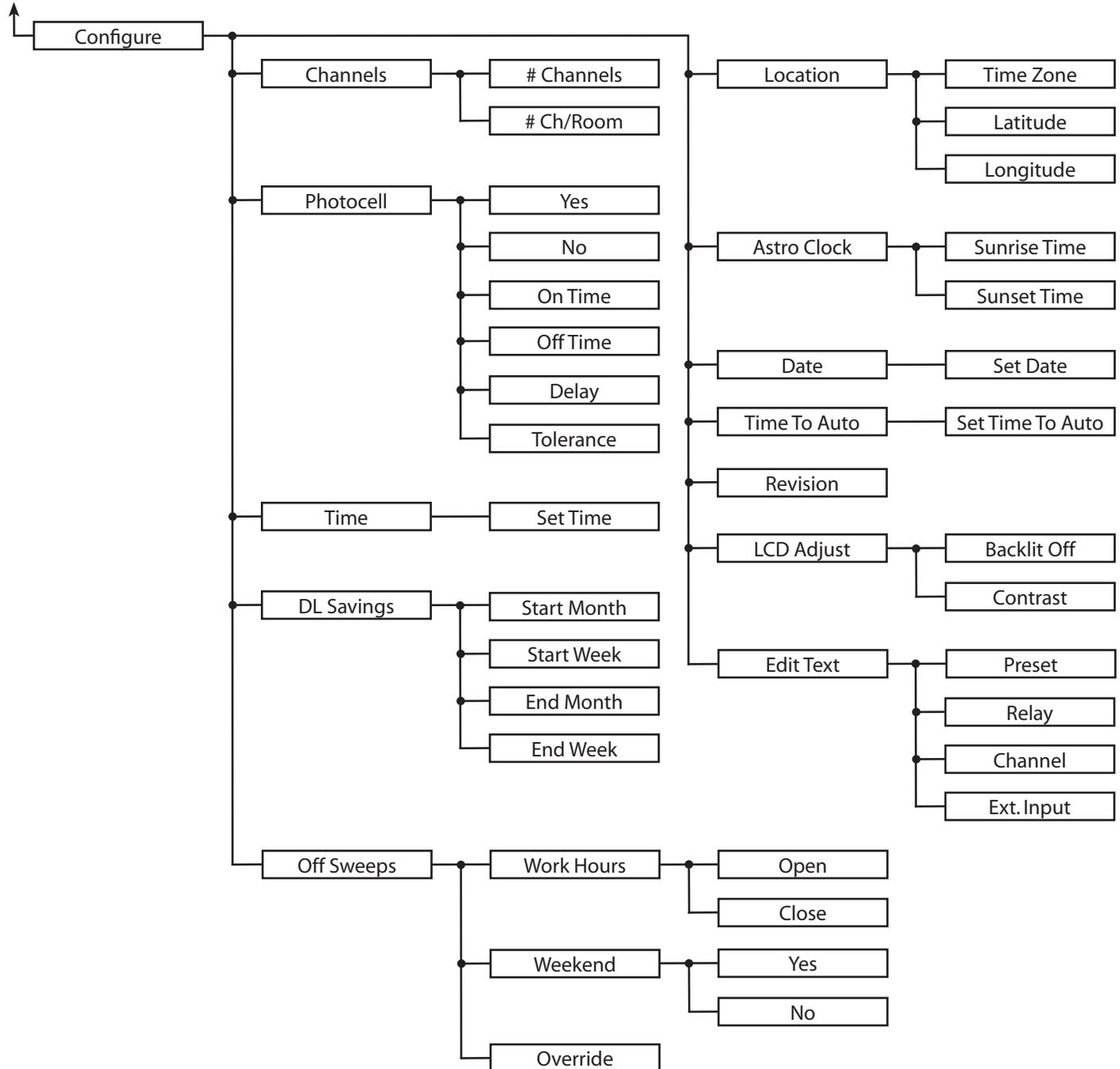
Continued from the Program Menu



Continue to the next page for the rest of the menu layout

# hercules menu layout part III

Continued from the Program Menu



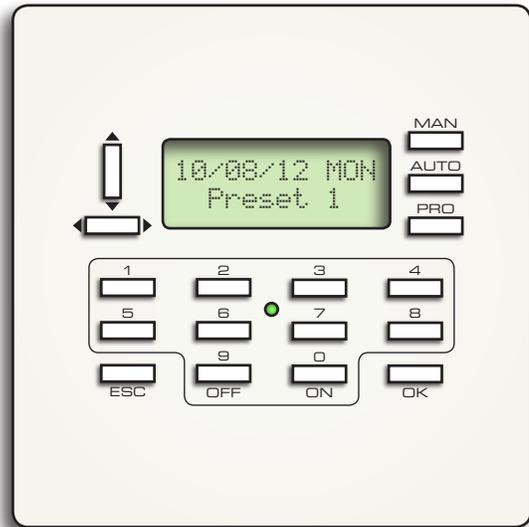
## *enter manual override*

10/08/2012 MON  
Preset 1

Manual Mode  
Code =

Manual Mode  
> Preset

1. Press MAN to enter the Manual mode.
2. By default, no code is required; skip to step 3. However, if one is required, use the numeric keypad to enter it, and press OK button.
3. Scroll to the desired option and press OK button. Options are: "Preset," "Relay," and "Channels".



## *enter program mode*

10/08/2012 MON  
Preset 1

Program Mode  
Code =

Manual Mode  
> Preset

1. Press PROG to enter the Program mode.
2. Enter your password ("5700" by default) by using the numeric keypad, and press OK button.
3. Scroll to the desired option and press OK button. The options are: "Schedule," "Light Level," "Zone Setup," "Holidays," "Ext. Inputs," "Skip," and "Setup". Some of these options may not be available, depending on the specific configuration of your lighting system.

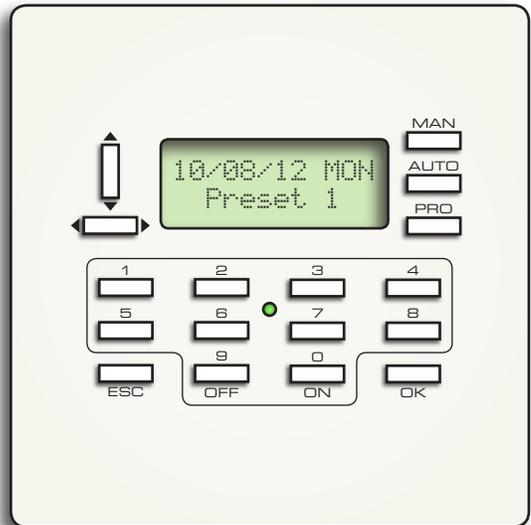
## enter manual override

10/08/2012 MON  
Preset 1

Manual Mode  
Code =

Manual Mode  
> Preset

1. Press MAN to enter the Manual mode.
2. By default, no code is required; skip to step 3. However, if one is required, use the numeric keypad to enter it, and press OK button.
3. Scroll to the desired option and press OK button. Options are: "Preset," "Relay," and "Channels".



## switch a relay

10/08/2012 MON  
Preset 1

Relays  
> One Relay

One Relay  
Relay #\_

Relay #1  
ON

1. Press MAN to enter the Manual mode. Scroll to "Relay" and press OK button.
2. Scroll to "One Relay" or "All Relays" and press OK button. If "All Relays", skip to step 4.
3. Use the numeric keypad to select the desired relay and press the OK button. The screen will show the relay's current state.
4. Press the OFF button to turn the relay(s) off, or press the ON button to turn the relay(s) ON, and press the OK button.

\*Text on this screen will vary depending on the event you have selected.

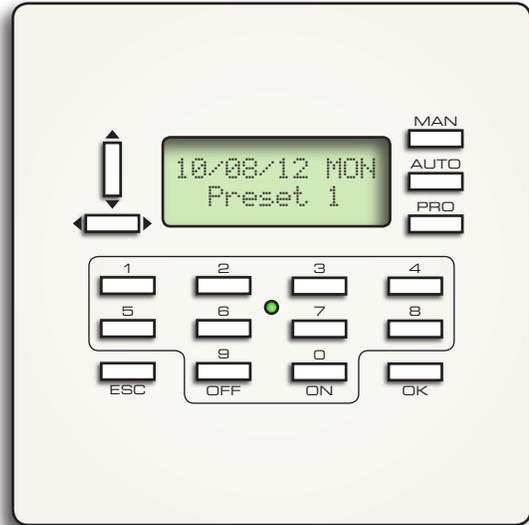
## recall a preset

10/08/2012 MON  
Preset 1

Preset  
Preset \_?

Preset 3  
Recalled

1. Press MAN to enter the Manual mode. Scroll to "Preset" and press OK button.
2. Use the numeric keypad to select the desired preset (9=OFF preset, 0=ON preset), then press the OK button.



## adjust light level

10/08/2012 MON  
Preset 1

Channels  
> Single

Select  
Channel #\_

Adjust Light  
Level \_\_\_%

1. Press MAN to enter the Manual mode. Scroll to "Channels" and press OK button.
2. Scroll to "Single" or "All" and press OK button. If "All", skip to step 4.
3. Use the numeric keypad to select the desired channel and press the OK button.
4. Use the numeric keypad to set the light level from 0% (full OFF) to 100% (full ON), and press OK button.

# set a time event

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Press OK button to select "Schedule"

\*Schedule\*  
> Add

2. Press OK button to select "Add". Press OK button again to select "Time"

Time Events  
> Preset

3. Go to "Preset" or "Relay" option and press OK. If "Preset", go to step 3a. If Relay, skip to Step 4.

Preset Event  
Preset \_?

- 3a. Indicate the Preset # by using the numeric keypad and press OK. (#9=OFF preset, #0=ON preset)

Relay Event  
> One Relay

4. Select "One Relay" option and press OK button; enter a relay number and press OK again. OR select "All Relays" and press OK button.

Recurrence  
> Single Day

5. Select for the event to occur on: "Single Day", "Everyday", "Weekday," or "Weekend" and press OK. If "Single Day" was selected, go to Step 5a, else skip to Step 6.

Select a Day  
SUN

- 5a. Indicate the day by pressing the corresponding #1-7 (1=Sunday -> 7=Saturday) and press OK button.

Time Events  
> Exact Time

6. Navigate to "Exact Time", "Sunrise", or "Sunset" and press OK button. If "Exact Time" is selected, go to Step 7; if "Sunrise" or "Sunset" are selected, go to Step 8.

Preset 3  
\_:\_: \_ AM

7. Enter the time in HH:MM format using the numeric keypad and indicate AM or PM using the Up/Down button. Press OK button and skip to Step 9.

Sunrise  
> No Offset

8. Select "No Offset", "Before" or "After" and press OK button. If "No Offset" was selected, skip to Step 9, else go to Step 8a.

Before  
Sunrise \_:\_

- 8a. Indicate the offset time in H:MM format (up to 3 hrs, 59 mins), using the numeric keypad, and press OK.

Relay 1  
OFF or ON

9. If the event is for a Relay, indicate whether the relay should be turned On or Off by the event by pressing ON or OFF. The screen will automatically take you back to Step 6, so you can add more time events

\*Text on this screen will vary depending on the selections you made on previous screens.

\*\* If you want to modify a time event, first DELETE THE EVENT, and add a new one to replace it using the steps on this page.

---

## *preview time events*

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Press OK button to select "Schedule"

\*Schedule\*  
> Preview

2. Scroll to "Preview" and press OK button. Press OK button to select "Time"

View Time  
> By Preset

3. Scroll to "By Preset" or "By Relay" and press OK button. Indicate the Preset or Relay number to preview and press OK button. Use the Up/Down button to look through the events. Press ESC button or OK button to return to the previous menu.

Relay 3 ON  
> MON

\*

## *delete time event*

\*Schedule\*  
> Delete

1. From the "Schedule" menu, scroll to "Delete" and press OK button. Press OK button again to select "Time"

Delete  
> By Preset

2. Scroll to "By Preset" or "By relay" and press OK button. Indicate the Preset or Relay number to delete and press OK button.

Relay 3 ON  
> MON

\*

3. Use the Up/Down button to look through the events. When you've found the event you would like to delete, press the OK button.

Delete Event  
> Delete

4. Press OK button to select "Delete" to delete the selected event. If you don't wish to delete the event, scroll to "Cancel" and press OK button.

\*Text on this screen will vary depending on the event you have selected.

# set a photocell event

- 10/08/2012 MON  
Preset 1
- \*Schedule\*  
> Add
- PHC Events  
> Preset
- Relay Event  
> One Relay
- Recurrence  
> Single Day
- Phc. Percent  
100%
- Relay 1  
OFF or ON \*
1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Press OK button to select "Schedule"
  2. Press OK button to select "Add". Press Down button to scroll to "Photocell" and press OK button.
  3. Go to "Preset" or "Relay" option and press OK. If "Preset", go to step 3a. If Relay, skip to Step 4.
  - 3a. Indicate the Preset # by using the numeric keypad and press OK. (#9=OFF preset, #0=ON preset)
  4. Select "One Relay" option and press OK button; enter a relay number and press OK again. OR select "All Relays" and press OK button.
  5. Select for the event to occur on: "Single Day", "Everyday", "Weekday," or "Weekend" and press OK. If "Single Day" was selected, go to Step 5a, else skip to Step 6.
  - 5a. Indicate the day by pressing the corresponding #1-7 (1=Sunday -> 7=Saturday) and press OK button.
  6. Use the numeric keypad to indicate the photocell reading at which the event should occur and press OK button. \*\*
  7. If the event is for a Relay, indicate whether the relay should be turned On or Off by the event by pressing ON or OFF button.

\*Text on this screen will vary depending on the selections you made on previous screens.

\*\* If you want to modify a photocell event, press OK button when screen prompts to override the current photocell event.

---

# *preview photocell events*

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Press OK button to select "Schedule"

\*Schedule\*  
> Preview

2. Scroll to "Preview" and press OK button. Scroll to "Photocell" and press OK button.

View PHC  
> By Preset

3. Scroll to "By Preset" or "By Relay" and press OK button. Indicate the Preset or Relay number to preview and press OK button. Use the Up/Down button to look through the events. Press ESC button or OK button to return to the previous menu.

Preset 3  
SUN

\* Press the Down button once to see the PHC value for this event.

# *delete photocell event*

\*Schedule\*  
> Delete

1. From the "Schedule" menu, scroll to "Delete" and press OK button. Scroll to "Photocell" and press OK button again.

DELETE EVENT  
> By Preset

2. Scroll to "By Preset" or "By relay" and press OK button. Indicate the Preset or Relay number to delete and press OK button.

Preset 3  
SUN

3. Use the Up/Down button to look through the events. When you've found the even you would like to delete, press the OK button.

Delete Event  
> Delete

4. Press OK button to select "Delete" to delete the selected event. If you don't wish to delete the event, scroll to "Cancel" and press OK button.

\*Text on this screen will vary depending on the event you have selected.

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# set light levels

-  1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Light Level" and press OK button.
-  2. Press OK button to select "Set Lights".
-  3. Indicate which Preset you want to set the lights for, and press OK button.
-  4. Scroll to "One Channel" or "All Channels" and press OK button. If "One Channel", go to Step 4a, otherwise continue to step 5.
-  4a. Indicate the channel whose preset should be set and press OK button.
-  5. Indicate the Light Level for the preset setting from 0% (full Off) to 100% (full On), and press OK button.
-  6. Indicate the Fade Rate, or the rate at which the light levels should be adjusted from one preset to the next, and press OK button. Fade Rates are from 0 seconds to 999 seconds
-  7. Wait for the controller to finish writing the presets to your dimming system. This may take up to several minutes depending on the number of channels in your system. The screen will display "Transmission Complete" when it is safe to continue programming
- 

---

# *preview light levels*



10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password (“5700” by default), by using the numeric keypad and press OK button. Scroll to “Light Level” and press OK button.



\*\*Presets\*\*  
> Preview

2. Scroll to “Preview” and press OK button. Select whether to preview the presets ‘By Preset’ or ‘By Channel’. If ‘By Preset’, go to Step 3. If ‘By Channel’, go to Step 4



Preset  
> Preset \_?

3. Indicate the Preset to preview, press OK button, and use the Up/Down button to scroll through the channels. The screen will alternate between showing the channel # and the light level and fade rate recorded for it. Press OK button to go back to the “Preview” menu.



Select  
> Channel #\_?

4. Indicate the desired Channel, press OK button, and use the numerical keypad to select each of the presets. (This is to view each of the preset settings for this particular channel) If there is nothing recorded for the selected preset, you’ll return to the “Preview” menu.

\*Text on this screen will vary depending on the selections you made on previous screens.

---

# skip events

- |                                     |   |
|-------------------------------------|---|
| <pre>10/08/2012 MON Preset 1</pre>  | 1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Skip" option and press OK button.  |
| <pre>**Skip** &gt; One Relay</pre>  | 2. Scroll to "One Relay" or "All Relays", and press OK button. If "All Relays", skip to step 4.   |
| <pre>Skip Relay Relay #__</pre>     | 3. Use the numeric keypad to select the relay # you'd like to skip, and press OK button.  |
| <pre>Add Skip &gt; Single Day</pre> | 4. Select the day(s) the relay should be skipped by selecting "Single Day", "Every day", "Week day", "Weekend", "Date", or "Holiday". If "Single Day", go to step 5. If "Date", go to step 6. If "Holiday", go to step 7. |
| <pre>Skip R# 002 SUN</pre>          | 5. Indicate the single day of the week on which the skip should occur by pressing the corresponding number (1=SUN, 7=SAT), and press OK button.   |
| <pre>Enter Date: --/--/--</pre>     | 6. Use the numeric keypad to indicate the date on which the skip should occur using the format MM/DD/YY, and press OK button.   |
| <pre>Add Skip &gt; Holidays 1</pre> | 6. Indicate which bank of holidays should be skipped by scrolling to either "Holidays 1" or "Holidays 2", and press OK button.  |

\*Text on this screen will vary depending on the selections you made on previous screens.

---

## *preview skips*

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Skip" option and press OK button.

\*\*Skip\*\*  
> Preview

2. Scroll to "Preview" and press OK button.

Preview Skip  
Relay #001 <

\*

3. Scroll to the desired relay using the Up/Down button, and then press the OK button to read through the information. Press the ESC button to return to the main Skip Events screen

## *delete skips*

10/08/2012 MON  
Preset 1

1. From the "Skip" menu, scroll to "Delete" and press OK button.

Delete Skip  
Relay #001 <

\*

2. Scroll to the desired event using the Up/Down button and press OK button.

Confirm  
> Delete

3. Press the OK button to confirm that you want to delete this Skip event, or press the ESC button to return to the list of relays without deleting.

\*Text on this screen will vary depending on the selections you made on previous screens.

---

## *add a holiday*

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Holidays" option and press OK button.

Holidays  
> Bank 1

2. Select "Bank 1" or "Bank 2" and press OK button. Press OK button again to select "Add".

Add Holiday  
\_\_/\_\_/\_\_

3. Use the numeric keypad to enter the date of the new holiday in the format MM/DD/YY and press OK button.

Add Duration  
\_\_ Years

4. Use the numeric keypad to set the duration of the holiday in years, up to 9 years (01=single occurrence) and press OK to add the new holiday to the selected bank.

## *preview/delete a holiday*

Holidays  
> Bank 1

1. From the "Holidays" menu, select the desired holiday bank and press OK button. Scroll to either "Preview" or "Delete" and press OK button again.

View Date\*  
12/25/12 09

2. Use the Up/Down button to scroll through the holidays stored in the bank. The holidays are shown in the format MM/DD/YY with the 2-digit duration time following. If "Delete" was selected, go to Step 3.

Delete Date\*  
12/25/12 09

3. If you've already scrolled to the holiday you want to delete, Press OK button to delete it from the bank, or press ESC to quit without deleting.

\*Text on this screen will vary depending on the selections you made on previous screens.

---

## ***sensors - enable/disable***

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Setup" option and press OK button.

\*Setup\*  
> Sensors

2. Scroll to "Sensors" and press OK button. Use the Up/Down buttons to select "Enable" or "Disable" and press OK.

Number of  
Sensors 00 <

3. If sensors are Enabled, navigate to "Count" and press OK. Use the numeric keypad or Up/Down buttons to set the number of sensors that will be on the system, and press OK.

Sensors  
> Reverse \*

4. Follow Steps #1 and 2. Navigate to "Reverse" or "Forward", to set the default phase to reverse phase or forward phase. Press OK to make your selection.

## ***configure sensors***

\*Setup\*  
> Sensors

1. Follow the instructions above to get to the "Setup" menu. Scroll to "Sensors" and press OK button.

\*\*Sensors\*\*  
> Configure

2. Scroll to "Configure Sensors" and press OK button.

Sensor #1  
> Enable \*

3. Use the numeric keypad to select the desired sensor and press the OK button. Use the OK button to enable or disable the selected sensor.

Sensor #1  
> Ambient \*

4. If you enabled the sensor, use the OK button to choose whether the sensor is an ambience sensor, PIR sensor, or Both. You will then enter the sensor delay menu.

Select Delay  
> Test Mode

5. If you want the delay to stay at default, press OK on "Test Mode". If not, navigate to "Time Delay" and press OK.

Delay Time  
000 seconds

6. Use the numeric keypad to input the desired delay and press OK.

\*Text on this screen will vary depending on the selections you made on previous screens.

---

## *sensors start/stop time*

\*Setup\*  
> Sensors

1. As on the previous page, follow the instructions to get to the "Setup" menu. Scroll to "Sensors" and press OK button.

Sensor #1  
> Start/Stop

2. Scroll to "Setup Sensors" and press OK button. Scroll to Start/Stop time and press OK.

Start Time  
12:00 PM

\*

3. Navigate to "Start Time" and press OK. Enter the time in HH:MM format using the numeric keypad, and indicate AM or PM using the Up/Down button. Press OK and repeat for "Stop Time." (Other options include "Always On" and "Always Off")

## *set target device type*

Sensor #1  
> Device Type

1. Navigate to "Setup Sensors", as before. Go to "Device Type" and Press OK.

Sensor #1  
> Dimmers

2. Select whether the sensor targets are dimmers, relays, or both, and press OK.

## *attach a device*

Sensor #1  
> Pick Device

1. Navigate to "Setup Sensors", as before. Go to "Pick Device" and press OK.

Sensor #1  
> Dimmers

\*

2. Based on the selection you made in "set target device type", select dimmers or relays and press OK, to add one of these devices to the sensor. The next screen will either prompt you to Add, Preview, or Delete. Select "Add", and press OK.

Sensor #1  
> Single

\*

3. Continue the prompt to add a single relay or dimmer. Use the numeric keypad to indicate the # of the relay/dimmer, and press OK. You will then be returned to the previous screen to continue adding devices to the selected sensor.

\*Text on this screen will vary depending on the selections you made on previous screens.

---

## *preview devices*

-  \* 1. Navigate to "Setup Sensors"; as before. Go to "Pick Device" and press OK.
-  \* 2. Navigate to "Dimmers" or "Relays" and press OK. Scroll to "Preview" and press OK.
-  \* 3. Here you can use the Up/Down buttons to scroll through the channels (or relays, if selected), that are attached to the selected sensor.

## *remove a device*

-  \* 1. Navigate to "Setup Sensors"; as before. Go to "Pick Device" and press OK.
-  \* 2. Navigate to "Dimmers" or "Relays" and press OK. Scroll to "Delete" and press OK.
-  \* 3. Use the numeric keypad to indicate the # of the relay/dimmer to remove, and press OK. You will then be returned to the previous screen to continue removing devices from the selected sensor.

\*Text on this screen will vary depending on the selections you made on previous screens.

# configure external inputs part I

## what is this feature?

This feature allows you to configure each of four external inputs by enabling each input, defining the type of input it is, and selecting the preset or relay event that will be triggered when the input receives a signal.

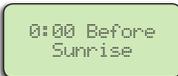
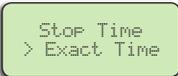
- |                             |   |
|-----------------------------|---|
| 10/08/2012 MON<br>Preset 1  | 1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Ext. Inputs" option and press OK button.   |
| Ext. Inputs<br>Input #_     | 2. Select an external input to configure (from 1 to 4) and press OK button. Press OK button again to select "Enable". (Can also be disabled here if you no longer want to use a particular external input)  |
| Ext. Inputs<br>> Preset     | 3. The options available are "Preset", "Relays", or "Preview". Scroll to your selection and press OK button. If "Preset" was selected, go to step 4. If "Relays" was selected, go to step 5.  |
| Set Preset<br>> No Preset   | 4. To remove a Preset from the external input, press OK for "No Preset". Otherwise, scroll to "Select" and press OK button. Use the numeric keypad to select the preset you would like recalled by the selected external input and press OK button (9=OFF preset, 0=ON preset). Continue to step 8. |
| Input Relays<br>> Add       | 5. "Add", "Delete" or "Preview" the relays affected by the input; scroll to your selection and press OK. If you chose "Add", you can select "One Relay" or "All Relays", and press OK button again. Go to step 6 if you selected "One Relay". If you selected "All Relays", continue to step 7.     |
| ADD RELAY<br>Relay #_       | 6. Use the numeric keypad to select the desired relay and press OK button.  |
| Relay #3<br>OFF or ON *     | 7. Use OFF or ON button to select if the triggered input will turn the relay(s) OFF or ON, and press OK button.   |
| Input Setup<br>> Set        | 8. Press OK button to select "Set" option, or scroll to "Preview" and press OK if you want to view the input's current settings. If you chose "Set", continue to step 9.  |
| Input Setup<br>> Start Time | 9. Scroll to "Start Time" or "Stop Time" and press the OK button. If "Stop Time" was selected, skip to step 13.   |

\*Text on this screen will vary depending on the selections you made on previous screens.

Please continue to "how to... configure external inputs part II"

---

# configure external inputs part II

-  \* 10. Select "Exact Time," "Sunrise," or "Sunset" and press OK button. If "Exact Time" is selected, go to Step 11; if "Sunrise" or "Sunset" are selected, go to Step 12.
-  \* 11. Enter the time in HH:MM format using the numeric keypad and indicate AM or PM using the Up/Down button. Press OK button and skip to Step 13.
-  \* 12. Select "No Offset," "Before" or "After" and press OK button. If "No Offset" was selected, skip to Step 13, else go to Step 12a.
-  \* 12a. Indicate the offset time in H:MM format (up to 3 hrs, 59 mins), using the numeric keypad, and press OK.
-  13. Follow the steps 10 through 12a to set the "Stop Time," then continue on to Step 14.
-  14. Select the type of input you would like it to be: "Momentary," "Maintain," or "Alarm/Flash," and press OK button. If "Momentary" or "Maintain" was selected, go to step 15. If "Alarm/Flash" was selected, go to step 16.
-  15. Set the External Input delay (From 2 to 240 minutes) using the numeric keypad, and press OK button. The external input is set and you're sent back to the "Program" menu.
-  16. Choose for the alarm type to be "Flashing" or "Stay on," and press OK button. If "Flashing," set the flash delay from 0 to 240 seconds, using the numeric keypad, and press OK button. The external input is set and you're sent back to the "Program" menu.

\*Text on this screen will vary depending on the selections you made on previous screens.

---

# photocell setup

## enable/disable this feature

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Setup" option and press OK button.

\*Setup\*  
> Photocell

2. Scroll to "Photocell" and press OK button. Press OK button again to select "Yes", which will enable this feature, and continue on to step 3. If you wish to disable the photocell, scroll to "No" and press OK button, which will return you to the "Setup" menu.

## set photocell options

Photocell  
On Time

3. Press OK button to set the On Time for the photocell.

ON Time  
10:45 AM \*

- 3a. Use the numeric keypad to set the time in HH:MM format. Use the Up/Down button to select AM or PM, and press OK button.

Photocell  
Off Time

4. Press OK button to set the Off Time for the photocell.

OFF Time  
09:00 PM \*

- 4a. Use the numeric keypad to set the time in HH:MM format. Use the Up/Down button to select AM or PM, and press OK button.

Photocell  
Delay

5. Press OK button to set the Delay for the photocell.

Delay  
030 seconds \*

- 5a. Use the numeric keypad to set the delay from 000 to 240 seconds, and press OK (default is 30 sec).

Photocell  
Tolerance

6. Press OK button to set the tolerance for the photocell.

Tolerance  
+/- 05% \*

- 6a. Use the numeric keypad to set the tolerance from +/- 0% to 29%, and press OK button (default is +/-5%).

\*Text on this screen will vary depending on the selections you made on previous screens.

---

# *set time/date/astro clock*

## *set time*

```
10/08/2012 MON  
Preset 1
```

```
*Setup*  
> Time/Date
```

```
Set Time  
*01:48:44 PM
```

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Setup" option and press OK button.
2. Press OK button to select "Time/Date". Press OK button again to select "Set Time".
3. Indicate the Time in the HH:MM:SS format using the numeric keypad, and set AM or PM by using the Up/Down button. Press OK button when the time is set.

## *set date*

```
*Time/Date*  
> Date
```

```
Set Date  
10/08/2012 MON
```

1. Go to "Time/Date" menu again. Scroll to "Date" and press OK button.
2. Indicate the Date in the MM:DD:YY format using the numeric keypad. The day of the week is calculated for you. Press OK button when the date is set.

## *view astronomical clock*

```
*Time/Date*  
> Astro Clock
```

```
Sunrise  
> 07:28 AM
```

1. Go to "Time/Date" menu again. Scroll to "Astro Clock" and press OK button.
2. Use the Up/Down button to scroll between previewing the Sunrise Time and the Sunset Time. Press OK or ESC button to return to the "Time/Date" menu.

---

# set daylight saving time

## what is this feature?

You can set when daylight saving begins and ends by setting the start date and end date. For instance, set the starting month and week, and daylight saving will begin on the Sunday of the specified week at 2 AM. This feature is usually already enabled.

## enable/disable this feature

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Setup" option and press OK button.

\*Setup\*  
> Time/Date

2. Press OK button to select "Time/Date". Scroll to "DL. Saving" and press OK button.

DL. Saving  
> Yes \*

3. To ENABLE the daylight saving feature, press OK button to select "Yes"; or to DISABLE the daylight saving feature, scroll to "No" and press OK button.

## set start date

DL. Saving  
> Yes \*

1. From the "DL. Saving" menu, scroll to "Start Month" and press OK button. Use the numeric keypad to enter the 2-digit Start Month and press OK button.

DL. Saving  
> Start Month

2. Again, from the "DL Saving" menu, scroll to "Start Week" and press OK button. Use the numeric keypad to enter the 1-digit Start Week and press OK button.

## set end date

DL. Saving  
> Yes \*

1. From the "DL. Saving" menu, scroll to "End Month" and press OK button. Use the numeric keypad to enter the 2-digit End Month and press OK button.

DL. Saving  
> End Month

2. Again, from the "DL. Saving" menu, scroll to "End Week" and press OK button. Use the numeric keypad to enter the 1-digit End Week and press OK button.

---

# set location

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Setup" option and press OK button.

\*Setup\*  
> Time/Date

2. Press OK button to select "Time/Date". Scroll to "Location" and press OK button.

Location  
> Time Zone

3. Press OK button to select "Time Zone". Set the Time Zone of the Location using the numeric keypad or the Up/Down button and press OK button.

Location  
> Time Zone

4. Scroll to "Latitude" and press OK button. Set the Latitude minutes and degrees of the Location using the numeric keypad. Use the Up/Down button to set North or South and press OK button.

Location  
> Time Zone

5. Scroll to "Longitude" and press OK button. Set the Longitude minutes and degrees of the Location using the numeric keypad. Use the Up/Down button to set East or West and press OK button.

---

# set off-sweep feature part I

## what is this feature?

All lighting in a facility should turn off after working hours are over. If, however, any relays are switched on after this time, the Hercules will wait a designated amount of time and “sweep” them off again. This is called “Off Sweep.” The programmable options for this feature are described below.

Work hours are the set hours that a facility is open and the lighting should be on. The Off Sweep will not occur during work hours. You can specify the open and close time.

## set the off-sweep work hours

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password (“5700” by default), by using the numeric keypad and press OK button. Scroll to “Setup” option and press OK button.

\*Setup\*  
> OFF Sweeps

2. Scroll to “Off Sweeps” and press OK button. Press Ok button again to select “Work Hours”

Open  
^ 08:00 AM

3. Use the numeric keypad to set the time the work hours will begin (off-sweeps will end), and use the Up/Down button to set AM or PM. Press OK button.

Close  
^ 05:00 PM

4. Use the numeric keypad to set the time the work hours will end (off-sweeps will begin), and use the Up/Down button to set AM or PM. Press OK button.

The Weekend feature is used to indicate whether or not the Off Sweep function should be performed on Saturdays and Sundays. If “No,” Off Sweep is disabled on weekends.

## enable/disable the weekend setting

Weekend  
> Yes \*

1. From the “OFF Sweeps” menu, scroll to “Weekend” and press OK button. To ENABLE the Weekend feature, press OK button to select “Yes”. To DISABLE this feature, scroll to “No” and press OK button. (The selected state will have a “\*” beside it)

Please continue to “how to... set off-sweep feature part II”

---

# set off-sweep feature part II

*“Override settings” actually refers to three different settings. “Override” is the amount of time the relays will remain on before being swept off. “Warn Before” indicates the amount of time before the off sweep that the lighting will flash to warn occupants of the imminent blackout. “Warn Cycle” is the amount of time between warning flashes.*

## set the override settings

OFF Sweeps  
> Weekend

1. From the “OFF Sweeps” menu, scroll to “Override” and press OK button.

Override  
2 hours

2. Use the numeric keypad to indicate the additional amount of time, in hours, that the lights should stay on before being swept off by the Off Sweep feature (from 1 to 5 hours), and press OK button.

Warn Before  
45 minutes

3. Indicate, in minutes, the amount of time before the off-sweep occurs that the lighting will flash to warn occupants of the imminent “blackout” (from 1 to 60 minutes). Press OK button to continue.

Warn Cycle  
10 minutes

4. Indicate, in minutes, the amount of time between warning flashes (from 1 to 20 minutes), and press OK button.

---

# *edit text*



10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Setup" option and press OK button.



\*Setup\*  
> Edit Text

2. Scroll to "Edit Text" and press OK. The list of objects with names which can be edited are as follows: "Preset"; "Relay"; "Channel"; and "Ext. Input". Select one and press OK button.



Edit Text  
Preset \_ \*

3. The next screen will prompt for the number of the Preset, Relay, Channel, or External Input who's name should be changed. Use the numeric keypad to enter the number and press OK button.



Relay #01  
\_\_\_\_\_ \*

4. Enter a descriptive name of no more than 11 characters by using the numeric keypad. The letters are assigned to the numbers as you would find on a standard telephone (i.e. 2=ABC, 3=DEF, etc.), and you can skip spaces by using the Left/Right button. Press OK button when you're finished.

\*Text on this screen will vary depending on the selections you made on previous screens.

---

# general settings

## time to auto setting

10/08/2012 MON  
Preset 1

1. Press PROG button to enter Program Mode. Enter your password ("5700" by default), by using the numeric keypad and press OK button. Scroll to "Setup" option and press OK button. Scroll to "Time to Auto" and press OK button again.

Time To Auto  
00:30 ?

2. Use the numeric keypad to indicate the amount of time that should pass before the time clock switches back to Auto mode from Program or Manual mode in the format MM:SS, with a maximum time of 10 minutes 59 seconds. Press OK

## lcd settings

\*Setup\*  
> LCD Adjust

1. From the "Setup" menu, scroll to "LCD Adjust" and press OK button. Press OK button again to select "Backlit OFF".

Backlit OFF  
after 1 min?

2. Indicate the amount of time in minutes before the backlight will turn off after controller use (from 1 to 5 minutes), and then Press OK button. This will take you back to the "LCD Adjust" menu.

LCD Adjust  
> LCD Contrast

3. From the "LCD Adjust" menu, scroll to "Contrast" and press OK button. Use the numeric keypad to enter a contrast percentage for the LCD Screen and press OK button.

## adjust sound

\*Setup\*  
> Sound

1. From the "Setup" menu, scroll to "Sound" and press OK button.

SOUND OPTION  
> High

2. Select between the options "High", "Medium", "Low", or "Off", and press OK button.

## revision info

\*Setup\*  
> Revision

1. From the "Setup" menu, scroll to "Revision" and press OK button.

v3.00.05  
02/06/2013

2. The revision information will be displayed for a few seconds before returning to the "Setup" menu.



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