

Integration Note

Manufacturer:	Lutron
Model Number(s):	Homeworks 4 Series, 8 Series, & Wireless Series P5 Processors
Minimum Core Module Version:	
Document Revision Date:	2/12/2013

IMPORTANT: The baud rate and flow control settings used to communicate from the g! system to the HomeWorks system changed starting with version 4.0 Build 389.

If you are upgrading from a version prior to 4.0.389 to a version later than 4.0.389, you must change the serial port settings on the Lutron processor to 9600 baud, no flow control.

OVERVIEW AND SUPPORTED FEATURES

Installing a Lutron lighting system can be broken down into the following steps:

- 1. Work with the client to determine what lights will be controlled, where switches will be installed, and where keypads will be installed. Follow Lutron guidelines.
- 2. Install and test the Lutron system, again according to Lutron standard procedures. See **Installation**Overview below for details on wiring the Lutron hardware to the **g!** system.
- 3. Program the Lutron system: refer to Lutron Programming Overview below.
- 4. Integrate the lighting system into the **g!** system and test proper operation. See **g! Configuration Details** and **g! System Programming Details** below.

LUTRON LIGHTING SYSTEMS SUPPORT THE FOLLOWING FEATURES:

Switch Control: Control of individual loads from virtual and simulated keypads.

Scene Control: Control of scenes from virtual and simulated keypads.

Schedule Control: Up to three schedules can be set using the Viewer software. The schedules are tied to the house mode.

Auto Detection: The **g!** system will automatically detect most switches, keypads, input modules and output modules in the system. See **g! System Programming Overview** for more details.

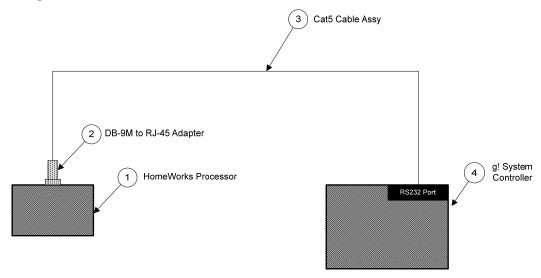
INSTALLATION OVERVIEW

Installing a Lutron lighting system in conjunction with a **g!** system includes the following steps:

- 1. During the rough-in phase, **in addition** to the wire runs needed for the Lutron system, add a single Cat5 cable from the HomeWorks Processor to the **g!** System Enclosure.
- 2. Complete the Lutron installation, and test according to Lutron procedures.
- 3. Terminate, test, and connect the Cat5 cable from the Lutron system and the g! system.
- 4. Configure the g! system.

CONNECTION DIAGRAM

Refer to the **Bill of Materials** and **Wiring Diagram** that follow. Refer to the **RS-232 Connection Options** Integration Note for alternative connections methods.



BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	HomeWorks Processor	Lutron	H-RFP-2P*	RS-232	DB-9 Female	*example of Lutron part number, refer to Lutron processors
2	DB-9M to RJ-45 Adapter	ELAN	HA-CB-307	RS-232	DB-9 Male X RJ-45 Female	
3	Cat5 Cable Assy.	Installer	N/A	RS-232	RJ-45 M ale X RJ-45 M ale	M ust terminate all 8 conductors
4	g! System Controller	ELAN	Various (e.g. HC12)	RS-232	RJ-45 Female	

LUTRON PROGRAMMING OVERVIEW

The following steps describe the process to change the default communication on the Lutron processor to 9600 baud, no hardware handshaking.

Step	Instructions	Comments
1	Press Menu on the HomeWorks processor to access the menu system.	Brings up the main menu.
2	Select Setup , then press OK .	Brings up the Setup menu.
3	Select Serial Port Settings , then press OK .	Brings up the Serial Port Settings menu.
4	Select the link used to connect to the g! system, the press OK .	Brings up the baud rate and flow control settings for the selected link.
5	Use the arrow keys to set the Baud Rate to 9600 and the Flow Control to None .	Use the up and down arrows to go between baud rate and flow control, then use the left and right arrows to change the setting.
6	Press Done to save your settings	The screen puts you back in the Serial Port Settings menu.
7	Press Back several times to exit the menu.	

g! Configuration Details

The following table provides settings used in the **g!** Configurator. Please refer to the *Configurator Reference Guide* for more details.

o "<Select from list>" Select the appropriate item from the list (or drop-down) in the Configurator.

o "<User Defined>", etc. Type in the desired name for the item.

"<Auto Detect>", etc. The system will auto detect this variable.

Refer to the **g! System Programming Details** below for additional information.

Devices	Variable Name	Setting	Comments	
Communication Devices	Name	<pre><user defined=""> (Default: Lighting)</user></pre>		
Communication Devices	Туре	Serial Port		
	Communication Type	Standard Connection		
	Location	Standard GoffnectionStandard GoffnectionStandard GoffnectionStandard Goffnection		
	COM Port	<pre><select from="" list=""></select></pre>	COM1, 2, 3 or 4	
	COMPOR	Societi IIIII IIst	CON1, 2, 3 01 4	
Part Control Control	Neger	dilaga Defineds (Defeuible)		
Lighting Interface	Name	<user defined=""> (Default: Lutron Homeworks Interactive)</user>		
	Device Type	Lutron Homeworks Interactive		
	Location	<select from="" list=""> (Not Required)</select>		
	COM Device	<select from="" list=""> (Default: Lighting)</select>		
<auto-detect devices=""></auto-detect>	Press a button on a Lutron keypad to b	a button on a Lutron keypad to begin the automatic discovery process.		
Lighting Devices	Name	<pre><auto detect=""></auto></pre>	Press a button on a keypad to start auto detect	
<u> </u>	Lighting Interface	<auto detect=""></auto>	,	
	Device Type	<auto detect=""></auto>		
	Location	<select from="" list=""> (Not Required)</select>		
	Station / Enc / Mod / LD	<auto detect=""></auto>		
Keypads	Name	<user defined=""></user>		
	Lighting Interface	<auto detect=""></auto>		
	Keypad Type	<auto detect=""></auto>		
	Location	<select from="" list=""> (Not Required)</select>		

g! System Programming Details

Once you have completed the initial configuration steps above, complete the following steps to get the keypads in the **g!** system to match the physical keypads on the wall.

Step	Instructions	Comments	
1	Automatically detect devices	Press a button on the dimmers or keypads in the Lutron system.	
		Wait for the system to complete detecting all of the devices.	
2	Select the first keypad	In the tree structure under Keypad Interfaces at left, select the first keypad. This displays the keypad's properties (and template) in the properties window at right.	
3	Set the keypad's name	In the properties window at the top, enter the desired name for this keypad and press Enter.	
4	Set the keypad template	Click the Ch. Temp. button at upper right: in the pop-up dialog, select the correct keypad template in the list and click OK . The template now appears in the properties window for the selected keypad.	
5	Set the button names	Click the Edit Text button at upper right. Type in the desired name and click OK . Repeat for the remaining buttons on the keypad.	
6	Repeat for remaining keypads		

COMMON MISTAKES

- 1. Incorrect serial port settings on the HomeWorks processor:
 - For Core Module versions 4.0.388 and earlier, use 115200 baud and hardware flow control.
 - For Core Module versions 4.0.389 and later, use 9600 baud and no flow control.
- 2. Failing to plug the Cat5 cable assembly into the correct serial port. Make sure the RJ-45 connector is plugged into the correct serial port as specified in the Configurator.
- 3. Configuring 2 subsystems with the same serial port.