The GRAFIK Eye QS with EcoSystem control unit allows for control of both lights and shades, without interfaces, using a single control unit. Features include pushbutton scene recall, info screen that displays energy savings and status, IR receiver, astronomic timeclock, contact closure input, and engravable backlit buttons that are easy to find and operate. The built-in EcoSystem bus link can control up to 64 EcoSystem devices.

Model Numbers: QSGRJ-6E, QSGRJ-8E, QSGRJ-16E
QSGR-6E, QSGR-8E, QSGR-16E

<table>
<thead>
<tr>
<th>Unit Capacity (watts)</th>
<th>120 V~50/60 Hz</th>
<th>220 - 240 V~50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLV</td>
<td>2000 W</td>
<td>3000 W</td>
</tr>
<tr>
<td></td>
<td>2000 VA</td>
<td>3000 VA</td>
</tr>
<tr>
<td></td>
<td>1600 W</td>
<td>2400 W</td>
</tr>
<tr>
<td>Zone Capacity (watts)</td>
<td>25 – 800 W</td>
<td>40 – 1200 W</td>
</tr>
<tr>
<td>MLV</td>
<td>25 – 800 VA</td>
<td>40 – 1200 VA</td>
</tr>
<tr>
<td></td>
<td>25 – 600 W</td>
<td>40 – 960 W</td>
</tr>
</tbody>
</table>

See page 6 for EcoSystem bus ratings; see page 7 for IEC PELV/NEC® Class 2 ratings.
Features and Functions of the GRAFIK Eye QS with EcoSystem Control Unit

Hinged faceplate

Page button
Switches between displaying zones 1 to 8 and 9 to 16 on 16-zone unit

Info screen
Displays status or programming functions

Master buttons
Temporarily raise and lower lighting levels on unit

Scene buttons
With integral scene indicator LEDs

Zone numbers

Zone raise/lower buttons
Zone LEDs display current lighting zone levels
Note: Zones 1, 2, and 3 are integral line voltage dimming zones that can control line voltage loads. Remaining zones are EcoSystem zones only. Zones 1, 2, and 3 can be either EcoSystem zones or line voltage zones (no zone can be both)

Optional Shade button groups
Preset and raise/lower buttons with integral LEDs (maximum of 3 button groups)

Timeclock button
Displays current timeclock info

OK button
Used for programming

Infrared receiver
For handheld remote use

USB type mini B
For programming via PC

Note: 6-zone control unit will show only zones 1 through 6.

For additional information, see the complete installation and operation guide at www.lutron.com/qs
Wiring the GRAFIK Eye QS with EcoSystem Control Unit: Overview of Line Voltage/Mains and EcoSystem Wiring

Two E1 and two E2 connections are provided for ease of wiring, and to provide two connecting points; there is only one EcoSystem link on the unit.

Note: Ballasts and other EcoSystem devices must NOT obtain power from a line voltage output on the GRAFIK Eye QS with EcoSystem control unit.

EcoSystem Bus Wiring
(See the bus wiring details section for complete specification)
Two 16 AWG (1.5 mm²) each terminal

Line Voltage/Mains Cables and Load Wiring
12 AWG (4.0 mm²) each terminal

Terminals labels:
L: Hot/Live
N: Neutral
: Ground
1, 2, 3: Dimmed/Switched line voltage outputs

* For a complete list of approved dimmable LEDs please call 1.800.523.9466 or visit www.lutron.com/dimcflled

Dimmable LED bulb*

For additional information, see the complete installation and operation guide at www.lutron.com/qs

GRAFIK Eye QS with EcoSystem Control Unit Quick Installation and Operation Guide 3
Wiring the GRAFIK Eye QS with EcoSystem Control Unit:
Line Voltage Wiring Details

- Use properly certified cable for all line voltage/mains cables.
- Proper short-circuit and overload protection must be provided at the distribution panel. You can use up to a 20 A circuit breaker for your installation.
- Install in accordance with all local and national electrical codes.
- IEC PELV/NEC® Class 2 terminals may be temporarily unplugged for ease of IR, occupancy sensor, and control wiring.
- Notice: Risk of damage to unit. Do not connect line voltage/mains cable to IEC PELV/NEC® Class 2 terminals.

**Step 1: Install wallbox.** Mount a 3½ in (89 mm) deep 4-gang U.S. wallbox on a dry, flat indoor surface that is accessible and allows for system programming and operation. Allow at least 4½ in (110 mm) clearance above and below the faceplate to ensure proper heat dissipation. Allow 1 in (25 mm) for faceplate overhang on all sides.

**Note:** 4-gang wallbox available from Lutron; P/N 241400.

**Step 2: Test load wiring.**
- Turn power OFF at the circuit breaker or fuse box.
- Connect a standard light switch between the live lead and load wire to test the circuit.
- Turn power ON and check for short or open circuits. If load does not operate, the circuit is open. If the circuit breaker trips (fuse blows or opens), a load short may exist. Correct short or open circuits and test again.

**Step 3: Check control unit wiring.**
- Earth/ground terminal connection must be made as shown in line voltage wiring diagrams.
- Do not mix different load types on the same zone.
- Follow all local and national electrical codes when installing IEC PELV/NEC® wiring with line voltage/mains wiring.

**WARNING! Shock hazard.** May result in serious injury or death. Always turn off circuit breaker or remove main fuse from power line before doing any work. Before connecting the loads to the GRAFIK Eye QS with EcoSystem control unit, test the loads for short-circuits.

(continued on next page)
Wiring the GRAFIK Eye QS with EcoSystem Control Unit: Line Voltage Wiring Details (continued)

Step 4: Connect line voltage and loads to control unit.
- Strip $\frac{3}{16}$ in (8 mm) of insulation off the line voltage/mains cables in the wallbox.

- Connect the line voltage/mains, ground, and load wires to the appropriate terminals on the back of the control unit.
  - L: Hot/Live
  - N: Neutral
  - $\bigcirc$: Ground
  - Terminals 1, 2, 3: Dimmed/Switched line voltage outputs

The recommended installation torque is 5.0 in-lb (0.6 N·m) for line voltage/mains connections and 5.0 in-lb (0.6 N·m) for the earth/ground connection.

Note: See the zone setup section for a list of compatible load types and instructions for programming the GRAFIK Eye QS with EcoSystem control unit to properly recognize them.

Notice: Risk of damage to unit. GRAFIK Eye QS with EcoSystem control units must be installed by a qualified electrician in accordance with all applicable regulations and building codes. Improper wiring can result in damage to control units or other equipment.

Note: To avoid overheating and possible damage to equipment, do not install control units to dim receptacles, motor-operated appliances, or fluorescent lighting not equipped with Lutron Hi-lume, Eco-10, Tu-Wire, EcoSystem electronic dimming ballasts, or other EcoSystem devices approved for your location. In dimmed magnetic low-voltage circuits, you can prevent transformer overheating and failure by avoiding excessively high current flow. Do not operate control units with any lamps removed or burned out; replace any burned out lamps immediately; use only transformers that incorporate thermal protection or fused primary windings. Control units are designed for residential and commercial use, for indoor use only.
EcoSystem bus wiring may be considered NEC® Class 1 or IEC PELV/NEC® Class 2.

- NEC® Class 1: EcoSystem bus wiring may be run in the same conduit as mains voltage wiring to fixtures.
- IEC PELV/NEC® Class 2: EcoSystem bus wiring must be separated from all mains and NEC® Class 1 wiring.
- Consult applicable national and local codes for compliance.
- Lutron recommends using two different colors for E1 and E2 (EcoSystem bus) wires. This will prevent wiring mistakes in junction boxes where several different EcoSystem bus wires combine. Use the following instructions for wiring the EcoSystem bus.

- Each EcoSystem link can have only 1 GRAFIK Eye QS with EcoSystem control unit connected to it. No additional EcoSystem bus supplies can be on the link.
- Up to 64 EcoSystem devices can be connected to the EcoSystem link.
- No other devices may be connected to the EcoSystem link.

**WARNING! Shock hazard. May result in serious injury or death.** Do not wire live. Interrupt power via circuit breaker before wiring and servicing the EcoSystem bus supply.

### Wiring the GRAFIK Eye QS with EcoSystem Control Unit: EcoSystem Bus Wiring Details

**Step 1:** Use the wire size chart at right to determine which wire size to use based on the length of the EcoSystem bus.

**Step 2:** Wire the EcoSystem bus from terminal E1 and terminal E2 to all EcoSystem devices.

**Step 3:** If wiring the EcoSystem bus as IEC PELV/NEC® Class 2, maintain proper separation from mains and NEC® Class 1 wiring.

**Step 4:** Turn on circuit breaker to energize.

### Wiring Size and Bus Length

EcoSystem bus wires E1 and E2 are not polarity sensitive. EcoSystem bus length is limited by the wire gauge used for E1 and E2 as follows:

<table>
<thead>
<tr>
<th>Wire Gauge</th>
<th>Maximum EcoSystem Bus Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 AWG (4.0 mm²)</td>
<td>2200 ft (671 m)</td>
</tr>
<tr>
<td>14 AWG (2.5 mm²)</td>
<td>1400 ft (427 m)</td>
</tr>
<tr>
<td>16 AWG (1.5 mm²)</td>
<td>900 ft (275 m)</td>
</tr>
<tr>
<td>18 AWG (1.0 mm²)</td>
<td>570 ft (175 m)</td>
</tr>
</tbody>
</table>

**Note:** Some EcoSystem devices (ballasts, drivers, and interfaces) accept connections to daylight sensors and occupancy sensors. For instructions on installing and operating these devices, refer to their individual instruction sheets.

EcoSystem bus wiring cables (16 AWG/1.5 mm²) are available from Lutron, part numbers C-CBL-216-GR-1 (non-plenum) and C-PCBL-216-CL-1 (plenum).

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For additional information, see the complete installation and operation guide at www.lutron.com/qs

GRAFIK Eye QS with EcoSystem Control Unit Quick Installation and Operation Guide
Wiring the GRAFIK Eye QS with EcoSystem Control Unit:
Overview of IEC PELV/NEC® Class 2 Wiring

**IR Wiring**
18 AWG (1.0 mm²) each terminal
From external IR connection (by others)

**Contact Closure Input Wiring**
24 V = 50 mA
For settings, see the full installation and operation guide at www.lutron.com/qs.

**Example:**
Occupancy sensor (maximum 1)

**QS Link Control Wiring**
24 V = 100 mA

**Common and power (terminals 1 and 2):**
Two 18 AWG (1.0 mm²) each terminal (for link <500 ft/153 m)
Two 12 AWG (4.0 mm²) each terminal (for link 500-2000 ft/153-610 m)

**Data (terminals 3 and 4):**
Twisted, shielded pair 22 AWG (0.5 mm²) each terminal

**Example:**
Emergency lighting interface (maximum 1)

**Note:**
The GRAFIK Eye QS control unit must be powered by a Normal/Emergency distribution panel for proper ELI operation. Refer to the LUT-ELI-3PH Installation Guide for the complete wiring diagram.

For additional information, see the complete installation and operation guide at www.lutron.com/qs.
Wiring the GRAFIK Eye QS with EcoSystem Control Unit:

**QS Link Control Wiring Details**

- System communication uses IEC PELV/NEC® Class 2 wiring.
- Follow all local and national electrical codes when installing IEC PELV/NEC® Class 2 wiring with line voltage/mains wiring.
- Each terminal accepts up to two 18 AWG (1.0 mm²) wires.
- Total length of control link must not exceed 2000 ft (610 m).
- Make all connections in the control unit’s wallbox.
- Wiring can be T-tapped or daisy-chained.
- IEC PELV/NEC® Class 2 24 V 150 mA.

**System Limits**

The QS wired communication link is limited to 100 devices or 100 zones. The GRAFIK Eye QS control unit supplies 3 Power Draw Units (PDUs) on the QS link. Refer to the QS Link Power Draw Units specification submittal (Lutron PN 369405) for more information concerning Power Draw Units.

**Wire Sizes (check compatibility in your area)**

<table>
<thead>
<tr>
<th>QS Link Wiring Length</th>
<th>Wire Gauge</th>
<th>Lutron Cable Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 500 ft (153 m)</td>
<td>Power (terminals 1 and 2)</td>
<td>GRX-CBL-346S (non-plenum)</td>
</tr>
<tr>
<td></td>
<td>1 pair 18 AWG (1.0 mm²)</td>
<td>GRX-PCBL-346S (plenum)</td>
</tr>
<tr>
<td></td>
<td>Data (terminals 3 and 4)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 twisted, shielded pair 22 AWG (0.5 mm²)</td>
<td></td>
</tr>
<tr>
<td>500 to 2000 ft (153 to 610 m)</td>
<td>Power (terminals 1 and 2)</td>
<td>GRX-CBL-46L (non-plenum)</td>
</tr>
<tr>
<td></td>
<td>1 pair 12 AWG (4.0 mm²)</td>
<td>GRX-PCBL-46L (plenum)</td>
</tr>
<tr>
<td></td>
<td>Data (terminals 3 and 4)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 twisted, shielded pair 22 AWG (0.5 mm²)</td>
<td></td>
</tr>
</tbody>
</table>
Wiring the GRAFIK Eye QS with EcoSystem Control Unit: Power Group Wiring Example

On the QS link, there are devices that supply power and devices that consume power. Each device has a specific number of Power Draw Units (PDUs) it either supplies or consumes. A Power Group consists of one device that supplies power and one or more devices that consume power; each Power Group may have only one power-supplying device. Refer to the QS Link Power Draw Units specification submittal (Lutron PN 369405) for more information concerning PDUs.

Within Power Groups on the QS link, connect all 4 terminals (1, 2, 3, and 4), shown by the letter A in the diagram. Between devices on the QS link that supply power, connect only terminals 1, 3, and 4 (NOT terminal 2), shown by the letter B on the diagram.

Wiring can be T-tapped or daisy-chained.

---

For additional information, see the complete installation and operation guide at www.lutron.com/qs
Completing Installation of the GRAFIK Eye QS Control Unit

1. Mount the control unit in the wallbox as shown using the four screws provided. 
   **Note:** Follow all local and national electrical codes when installing IEC PELV/NEC® Class 2 wiring with line voltage/mains wiring.

2. Verify installation:
   - Restore power.
   - Press the top scene button. The LED will light.
   - Press the zone raise and lower buttons. Make sure the control unit is dimming all connected loads.

3. Apply the protective overlay to the control unit.

**Note:** When tightening mounting screws, make sure that the hinged cover and faceplate will open fully, as shown.

For additional information, see the complete installation and operation guide at www.lutron.com/qs
Programming Mode

Entering and Exiting Programming Mode

<table>
<thead>
<tr>
<th>Main menu</th>
<th>Exiting programming mode: Press and hold the top and bottom scene buttons simultaneously for 3 seconds. The LEDs in the scene buttons will scroll from top to bottom, confirming that you are in programming mode, and the info screen will display the main menu.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeclock</td>
<td></td>
</tr>
<tr>
<td>Scene setup</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scene 1</th>
<th>Exiting programming mode: Press and hold the top and bottom scene buttons simultaneously for 3 seconds. The info screen will go to Scene 1.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fade time</td>
<td></td>
</tr>
<tr>
<td>3 seconds</td>
<td></td>
</tr>
</tbody>
</table>

Navigating Menus in Programming Mode

Master Buttons
The Master buttons allow you to move through the menu choices. The current choice is highlighted on the info screen.

OK Button
The OK button chooses the current highlighted menu choice. This will either take you to the next menu or accept a setting you have selected. When the screen displays a Yes/No question, the OK button is “Yes”.

Timeclock Button
The timeclock button functions as a “back” button during programming mode. Pressing the timeclock button takes you back one step in the current menu. Pressing it repeatedly will eventually return you to the main menu, but will not exit programming mode. When the screen displays a Yes/No question, the Timeclock button is “No”.

For additional information, see the complete installation and operation guide at www.lutron.com/qs
GRAFIK Eye QS with EcoSystem Control Unit Quick Installation and Operation Guide 11
Wireless Mode

Many models of the GRAFIK Eye QS control unit support wireless communication with other Lutron products. This feature allows for easy integration of wireless sensors, keypads, remotes, and shades for single-room wireless applications. Units supporting wireless communication are labeled “GRAFIK Eye QS Wireless” on the front label of the unit.

The wireless feature of the GRAFIK Eye QS Wireless control unit has three (3) modes of operation:

• **Disabled**: Use for wired-only systems.
• **Enabled**: The GRAFIK Eye QS Wireless control unit will respond to any programming commands from nearby Lutron QS wireless (and compatible) products.
• **Ignore Programming (default)**: The GRAFIK Eye QS Wireless control unit will only respond to normal operation commands from wireless devices associated while in Enabled mode.

Changing the wireless mode of the GRAFIK Eye QS Wireless control unit:

1. Enter programming mode.
2. Use the Master buttons to highlight “Wireless Mode” and press the OK button to accept.
3. Use the Master buttons to highlight the desired wireless mode, and press the OK button to accept.
4. The info screen will display a confirming “Saved” message.
5. Exit programming mode.

Note: The wireless signal has a range of 30 ft (9 m) through standard construction or 60 ft (18 m) line of sight.

FCC Information

Changes or modifications not expressly approved by Lutron Electronics Co. could void the user’s authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. Operation is subject to the following: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. These limits are designed to provide reasonable protection against harmful interference in a residential and commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
Assigning Load Types

1. Enter programming mode.
2. Use the Master buttons to highlight “Zone setup” and press the OK button to accept.
3. Use the Master buttons to highlight “Load type”. Press the OK button to accept. See “Setting Load Types” table on the next page.
4. Use the zone raise/lower buttons to choose the load type for that zone. See the list on the next page for supported load types. Press the OK button to accept.
5. The info screen will confirm that your load type has been saved.
6. Exit programming mode.

Assigning Non-Dim Load Type

Zones assigned to non-dim loads have three available configurations:

• LOFO: Last On, First Off
• FOFO: First On, First Off
• FOLO: First On, Last Off

Scenes made up of both dim and non-dim load types will toggle the non-dim loads before the dim loads in a “First” on/off configuration, and after the dim loads in a “Last” on/off configuration.

1. Enter programming mode.
2. Use the Master buttons to highlight “Zone setup” and press the OK button to accept.
3. Use the Master buttons to highlight “Non-Dim Load type”. Press the OK button to accept. See “Setting Load Types” table on the next page.
4. Use the zone raise/lower buttons to choose the non-dim load type for that zone. (Zones not programmed as non-dim will be displayed as Unaffected.) Press the OK button to accept.
5. The info screen will confirm that your load type has been saved.
6. Exit programming mode.
### Zone Setup (continued)

#### Setting Load Types

<table>
<thead>
<tr>
<th>Fixture load type</th>
<th>Choose this load type from the menu on the GRAFIK Eye QS control unit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct control via GRAFIK Eye QS control unit</td>
<td>Control via power module or interface</td>
</tr>
<tr>
<td>Incandescent</td>
<td>Incandescent</td>
</tr>
<tr>
<td>MLV (magnetic low-voltage)</td>
<td>MLV</td>
</tr>
<tr>
<td>ELV (electronic low-voltage)</td>
<td>---</td>
</tr>
<tr>
<td>Hi-Lume/Eco-10 ballast</td>
<td>---</td>
</tr>
<tr>
<td>Hi-lume 2-wire LTE LED driver</td>
<td>Fluorescent module</td>
</tr>
<tr>
<td>Hi-lume 3-wire L3D LED driver</td>
<td>---</td>
</tr>
<tr>
<td>0-10 V</td>
<td>0-10 V</td>
</tr>
<tr>
<td>Non-dim lighting loads</td>
<td>Non-dim</td>
</tr>
<tr>
<td>Neon/Cold cathode</td>
<td>Neon, CC</td>
</tr>
<tr>
<td>Tu-Wire</td>
<td>Tu-Wire</td>
</tr>
<tr>
<td>Advance Mark X</td>
<td>Tu-Wire</td>
</tr>
<tr>
<td>EcoSystem</td>
<td>Digital load</td>
</tr>
<tr>
<td>DMX</td>
<td>DMX</td>
</tr>
<tr>
<td>RGB/CMY DMX</td>
<td>RGB/CMY DMX</td>
</tr>
<tr>
<td>EcoSystem switching (e.g., XPJ)</td>
<td>Non-dim digital</td>
</tr>
<tr>
<td>Cree LR4/LR6 LED</td>
<td>Cree LR4/LR6 LED</td>
</tr>
<tr>
<td>LED</td>
<td>Incandescent*</td>
</tr>
<tr>
<td>EcoSystem</td>
<td>Digital load</td>
</tr>
<tr>
<td>DMX</td>
<td>DMX</td>
</tr>
<tr>
<td>RGB/CMY DMX</td>
<td>RGB/CMY DMX</td>
</tr>
<tr>
<td>EcoSystem switching (e.g., XPJ)</td>
<td>Non-dim digital</td>
</tr>
</tbody>
</table>

#### Load Type Notes

- All electronic low-voltage (ELV) lighting used with an interface must be rated for reverse phase control dimming. Before installing an ELV light source, verify with the manufacturer that their transformer can be dimmed. When dimming, an ELV interface (e.g., PHPM-PA-DV-WH) must be used with the control unit.

- For all DMX or RGB/CMY DMX lighting, an external DMX interface (e.g., QSE-CI-DMX) must be used with the control unit.

- Maximum total lighting load for Lutron Tu-Wire and Advance Mark X electronic dimming ballasts (120 V~ only) must not exceed 6 A per zone or 16 A per unit.

- Maximum total lighting load for LTE LED drivers must not exceed 10 LED drivers per zone or 26 LED drivers per unit.

#### For non-EcoSystem loads:

- Not all zones must be connected; however, connected zones must have a minimum load:
  - 120 V~: 25 W
  - 220 - 240 V~: 40 W

- Maximum zone loads:
  - 120 V~: 800 W
  - 220 - 240 V~: 1200 W

- Maximum total lighting load for magnetic low-voltage (MLV) varies by input voltage:
  - 120 V~: 800 VA / 600 W
  - 220 - 240 V~: 1200 VA / 960 W

* Use incandescent load type unless otherwise specified in the LED product selection tool available at www.lutron.com/ledtool.
EcoSystem Setup

After EcoSystem devices are wired and powered, they must be addressed before the system can control them. The “Build System” command automates this process.

Note: All existing EcoSystem programming will be deleted when the “Build System” command is run, including EcoSystem sensor programming on the GRAFIK Eye QS control unit.

Building the System

1. Enter programming mode.
2. Use the Master buttons to highlight “EcoSystem” and press the OK button to accept.
3. Use the Master buttons to highlight “Build system” and press the OK button to accept.
4. Press the OK button to erase all current programming, reset and address EcoSystem devices, and find sensors on the system.
5. Exit programming mode.

Note: After running “Build System”, Zone 4 will control all EcoSystem devices for diagnostics and verification of wiring. (This feature is disabled once any of the addressed devices are assigned to a zone on the GRAFIK Eye QS control unit.) Use the Zone 4 raise/lower buttons to verify that all devices are correctly addressed. If a device does not respond, repeat the “Build System” command and/or check the wiring.

For additional information, see the complete installation and operation guide at www.lutron.com/qs

GRAFIK Eye QS with EcoSystem Control Unit Quick Installation and Operation Guide   15
EcoSystem Setup

Assigning/Unassigning an EcoSystem Device to a Zone

EcoSystem devices must be addressed on the system (see previous page) before assigning or unassigning to a zone.

1. Enter programming mode.
2. Use the Master buttons to highlight “EcoSystem” and press the OK button to accept.
3. Use the Master buttons to highlight “Assign zones” and press the OK button to accept.
4. Use the Master buttons to scroll through the EcoSystem devices on the link. The selected device will flash, and the info screen will display the device number and the number of devices on the link. If the device is currently assigned to a zone, the zone number will display at the bottom of the screen and the LEDs for the zone will go on; otherwise, the info screen will display “*Unassigned*”.
   - Press the zone raise button to assign the device to that zone.
   - Press the zone lower button to unassign the device to that zone.
5. Press the timeclock (back) button to return to the EcoSystem menu. EcoSystem devices will return to normal levels.
6. Exit programming mode.

Notes

- Devices that were previously assigned to a zone will be removed from the old zone and assigned to the new zone (each device can be assigned to only 1 zone at a time).
- Devices can be assigned only to zones set to EcoSystem load type.
- Refer to the Zone Setup section for instructions on changing load type.

For additional information, see the complete installation and operation guide at www.lutron.com/qs

GRAFIK Eye QS with EcoSystem Control Unit Quick Installation and Operation Guide 16
Scene Setup

Setting Zone Levels, Fade Rates, and Shade Group Actions

1. Enter programming mode.
2. Use the Master buttons to highlight “Scene setup” and press the OK button to accept.
3. Use the Master buttons to highlight “Levels” to adjust lighting and/or shade levels. Press the OK button to accept. Use the Master buttons to highlight the scene number of your desired scene. Press the OK button to accept.
4. Set each zone to the desired light level for this scene using the zone raise/lower buttons. The info screen will display the zone and percentage as you adjust it.
   To set a zone as unaffected, lower the light levels all the way to off, then hold the zone lower button for 3 seconds. The screen will display “---” and the three middle LEDs for the zone will be lit to indicate this zone is unaffected by the scene (the zone will not change when this scene is initiated).
   When all zones are at the desired level, press the OK button to accept.
5. Use the Master buttons to set the fade time for this scene. Press the OK button to accept.
6. **Note:** This step is applicable only if you have shades on your system. If you do not have or do not wish to set shade groups for this scene, press the OK button to skip this step.
   Set each shade group to the desired level for this scene.
   When all shade groups are at the desired level, press the OK button to accept.
   For shade programming, see the full installation and operation guide at www.lutron.com/qs.
7. The info screen will confirm that your scene has been saved.
8. Exit programming mode.

<table>
<thead>
<tr>
<th>Main menu</th>
<th>Timeclock</th>
<th>Scene setup</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td><strong>Scene setup</strong></td>
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<td>Labels</td>
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<tr>
<td><strong>Scene 1</strong></td>
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<tr>
<td>Set zones</td>
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<tr>
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<tr>
<td>Adjust fade</td>
<td>3 seconds</td>
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<tr>
<td><strong>Scene 1</strong></td>
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<tr>
<td>Set shade Groups</td>
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<td><strong>Saved</strong></td>
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</table>

For additional information, see the complete installation and operation guide at www.lutron.com/qs
**Occupancy Sensor Setup**

Associating wireless occupancy sensors and GRAFIK Eye QS Wireless control units (for wireless enabled units only):

1. Make sure the wireless mode of the GRAFIK Eye QS control unit is “Enabled”.
2. Enter programming mode.
3. Use the Master buttons to highlight “Sensor setup” and press the OK button to accept.
4. Use the Master buttons to highlight “Add wireless sensors” and press the OK button to accept.
5. Press and hold the “Lights Off” button (🎈 on some sensors) on the occupancy sensor for 6 seconds. The lens will start flashing and the info screen on the GRAFIK Eye QS Wireless control unit will display the sensor’s serial number.
6. Press the OK button on the GRAFIK Eye QS control unit. A screen will confirm that the sensor has been assigned.
   
   (To disassociate a wireless occupancy sensor from the GRAFIK Eye QS control unit, Refer to the Radio Powr Savr occupancy sensor install guide to return the sensor to its “out-of-box” functionality. Doing so will remove its programming from the GRAFIK Eye QS control unit.)
7. Repeat the above steps for all desired sensors.
8. Exit programming mode.

Associating wireless occupancy sensors through QS Sensor Modules (QSM):

1. Press and hold the Program button on the QSM for 3 seconds to enter programming mode. There will be 1 audible beep and the Status LED will begin flashing. The info screen on the GRAFIK Eye QS control unit will display that the QSM is in programming mode.
2. Press and hold the “Lights Off” button (🎈 on some sensors) on the occupancy sensor for 6 seconds. There will be 3 audible beeps from the QSM to verify association.
3. Press and hold the Program button on the QSM for 3 seconds to exit programming mode.

   **Note:** The wireless signal has a range of 30 ft (9 m) through standard construction or 60 ft (18 m) line of sight.
Occupancy Sensor Setup

Scene Mode
This step allows you to assign up to four occupancy sensors to the GRAFIK Eye QS control unit.

Selecting Sensors
1. If not already done, associate occupancy sensors and set to “Scene Mode”.
2. Use the Master buttons to highlight “Setup” and press the OK button to accept. The info screen will display “Searching” while the unit detects available occupancy sensors.
3. Use the Master buttons to scroll through the list of available occupancy sensors. When the desired sensor is displayed, press the OK button to select it. Then choose “Assign” or “Unassign” from the following menu and press OK. Once a sensor has been assigned, it will appear with an asterisk (*) in the sensor list. Repeat for additional sensors.

Note: If wireless sensors are not found, verify that they are associated correctly.

Setting the Sensor Action
1. Press the Timeclock (back) button to return to the Occ Sensor screen. Use the Master buttons to highlight “Actions” and press the OK button. By default, the occupied scene is set to “No Action” and the unoccupied scene is set to “Scene Off”.
2. Use the Master buttons to highlight the scene you wish to use for occupied status and press the OK button to accept. Repeat for the scene you wish to use for unoccupied status. Press the OK button to accept.
3. Exit programming mode.
### Occupancy Sensor Setup

**Configuring Occupancy Sensor Settings (optional)**

#### Occupancy Sensor Settings

**Note:** These settings affect all sensors assigned to the GRAFIK Eye QS control unit.

**Grace Period:** If the GRAFIK Eye QS control unit is transitioning to an unoccupied state, motion detected within the grace period will return the lights to the previously occupied level.
Range: 15 – 30 seconds (default 15 seconds).

**Vacancy Delay:** An additional time delay after vacancy is detected and before unoccupied action occurs. Use when occupancy sensor does not provide sufficient delay.
Range: 0 – 30 minutes (default 0 minutes).

**Auto Turnoff:** If lights assigned to an occupancy sensor are turned on manually without the sensor reporting occupancy, the GRAFIK Eye QS control unit can be set to automatically turn off the lights after a set time delay. Disable this feature by setting the time delay to 0 (disabled).
Range: Disabled or 1 – 30 minutes (default Disabled).

**Zone Fade:** When in Zone Mode, lights can be set to fade to the unoccupied levels over this period of time.
Range: 0 – 59 seconds; 1 – 10 minutes (default 10 seconds).

#### Configuring the Sensor Settings:

1. Enter programming mode.
2. Use the Master buttons to highlight “Sensor Setup” and press the OK button to accept.
3. Use the Master buttons to highlight “Occupancy” and press the OK button to accept.
4. Use the Master buttons to highlight “Settings” and press the OK button to accept.
5. Use the Master buttons to highlight the setting you wish to configure. Press the OK button to accept.
6. Use the Master buttons to adjust the value of the selected setting. Press the OK button to accept.
7. The info screen will confirm that your setting has been saved.
8. Exit programming mode.
Associating the Pico wireless control with a GRAFIK Eye QS Wireless control unit:
(for wireless enabled GRAFIK Eye QS control units only)

1. Make sure the wireless mode of the GRAFIK Eye QS control unit is “Enabled”.

2. On the Pico wireless control, press and hold the top (on) and bottom (off) buttons for 3 seconds. The info screen on the GRAFIK Eye QS control unit will display the Pico options. Press the OK button on the GRAFIK Eye QS control unit to select the desired operation type for the Pico.

3a. To assign the Pico wireless control as a zone controller, use the Master buttons to select “Zone” and press the OK button to accept. Use the zone raise/lower buttons for a zone to select a desired preset level, and then press the zone raise and lower buttons simultaneously for 1 second (until the zone LEDs flash at the programmed preset level). Repeat for all zones you wish to control with the Pico wireless control.

3b. To assign the Pico wireless control as a scene controller, use the Master buttons to select “Scene” and press the OK button to accept. Press and hold the top scene button on the GRAFIK Eye QS control unit for 3 seconds (until the scene LEDs flash).

4. On the Pico wireless control, press and hold the top and bottom buttons for 3 seconds until the LEDs on the GRAFIK Eye QS control unit stop flashing.

Note: The wireless signal has a range of 30 ft (9 m) through standard construction or 60 ft (18 m) line of sight.
## Troubleshooting

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<tr>
<th>Symptom</th>
<th>Possible Causes</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit does not power up</td>
<td>Circuit Breaker is off</td>
<td>Switch circuit breaker on</td>
</tr>
<tr>
<td>Unit does not control loads</td>
<td>Miswire</td>
<td>Verify wiring to unit and loads</td>
</tr>
<tr>
<td>Circuit breaker is tripping</td>
<td>System short circuited</td>
<td>Find and correct shorts</td>
</tr>
<tr>
<td></td>
<td>System overload</td>
<td>Verify zone/unit loading is within ratings (see Zone Setup section)</td>
</tr>
<tr>
<td>Zone control does not work</td>
<td>Miswire</td>
<td>Make sure loads are connected to the right zones</td>
</tr>
<tr>
<td>Zone control yields incorrect results</td>
<td>Loose or disconnected wire</td>
<td>Connect zone wires to loads</td>
</tr>
<tr>
<td></td>
<td>Burned out lamps</td>
<td>Replace bad lamps</td>
</tr>
<tr>
<td></td>
<td>Incorrect load type selected</td>
<td>Assign the zone to the appropriate load type (see Zone Setup section)</td>
</tr>
<tr>
<td></td>
<td>Dimming limits set incorrectly</td>
<td>Adjust High End/Low End values (see Zone Setup section)</td>
</tr>
<tr>
<td>One or more zones are always “full on” and zone intensity is not adjustable</td>
<td>Miswire</td>
<td>Make sure loads are connected to the right zones</td>
</tr>
<tr>
<td>Zone control affects more than one zone</td>
<td>Shorted line output</td>
<td>Check wiring; if wiring is correct, call Lutron Customer Assistance</td>
</tr>
<tr>
<td>Faceplate is warm</td>
<td>Normal operation</td>
<td>Solid-state controls dissipate about 2% of the connected load as heat. No action is required</td>
</tr>
<tr>
<td>Unit does not allow scene change or zone adjustments</td>
<td>Unit is in wrong save mode</td>
<td>Change to correct save mode</td>
</tr>
<tr>
<td></td>
<td>QS device in system has locked the unit</td>
<td>Check programming and state of QS devices</td>
</tr>
<tr>
<td>Cannot program fade time from “Scene Off”</td>
<td>Fade time from “Scene Off” is not programmable; can only program fade time to “Scene Off”</td>
<td>Fade time from “Scene Off” is always 3 seconds</td>
</tr>
<tr>
<td>Integral (direct-wired) contact closure input does not work</td>
<td>Miswire</td>
<td>Check wiring on contact closure input</td>
</tr>
<tr>
<td></td>
<td>Input CCI signal is not received</td>
<td>Verify the input device is operating properly</td>
</tr>
<tr>
<td></td>
<td>Unit is in wrong CCI mode and/or type</td>
<td>Change to correct CCI mode and/or type for your application</td>
</tr>
<tr>
<td>QS devices on link are not working</td>
<td>Miswire or loose connection on QS link</td>
<td>Verify QS link wiring to all devices</td>
</tr>
<tr>
<td></td>
<td>QS device is not associated</td>
<td>Place the QS device into programming mode, and hold the “Scene 1” button on the GRAFIK Eye QS control unit to associate the two devices</td>
</tr>
<tr>
<td></td>
<td>QS device programming is incorrect</td>
<td>Verify the functionality and programming on the QS devices</td>
</tr>
<tr>
<td>Timeclock events do not occur</td>
<td>Timeclock is disabled</td>
<td>Enable the timeclock</td>
</tr>
<tr>
<td>Sunrise or sunset events do not occur at the correct time</td>
<td>Time/date is not set correctly</td>
<td>Set the time/date</td>
</tr>
<tr>
<td></td>
<td>Location is not set correctly</td>
<td>Set the latitude and longitude of the unit’s location</td>
</tr>
<tr>
<td></td>
<td>Holiday schedule is in effect</td>
<td>Normal schedule will resume when the holiday ends</td>
</tr>
</tbody>
</table>

For additional information, see the complete installation and operation guide at www.lutron.com/qs
GRAFIK Eye QS with EcoSystem Control Unit Quick Installation and Operation Guide 22
### Troubleshooting: EcoSystem Functions

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Causes</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Build System” command does not find EcoSystem loads</td>
<td>E1 and/or E2 are miswired or not connected</td>
<td>Check wiring; if wiring is correct, call Lutron Customer Assistance</td>
</tr>
<tr>
<td>Cannot add an EcoSystem device to a zone after a “Build System” or “Address all” command has been run</td>
<td>Zone is not set to Digital</td>
<td>Set the zone to Digital</td>
</tr>
<tr>
<td>EcoSystem device at full brightness cannot be controlled</td>
<td>E1 and E2 are not connected</td>
<td>Check E1 and E2 connections on the back of the GRAFIK Eye QS with EcoSystem control unit</td>
</tr>
<tr>
<td></td>
<td>EcoSystem link is overloaded</td>
<td>Reduce number of EcoSystem devices on link to 64 or fewer. Check voltage: Minimum voltage of 12 V==</td>
</tr>
<tr>
<td>EcoSystem devices do not flash when running the “Build System” command</td>
<td>EcoSystem devices are not addressed</td>
<td>Address EcoSystem devices</td>
</tr>
<tr>
<td></td>
<td>EcoSystem devices are miswired</td>
<td>Check E1 and E2 wiring, and power wiring to EcoSystem devices</td>
</tr>
<tr>
<td>EcoSystem device is not affected by a zone level change</td>
<td>EcoSystem device is not addressed</td>
<td>Run the “Address all” command and assign the EcoSystem device to a zone</td>
</tr>
<tr>
<td></td>
<td>EcoSystem device is not assigned to a zone</td>
<td>Assign EcoSystem device to a zone</td>
</tr>
<tr>
<td>System does not recognize sensors connected to a EcoSystem device</td>
<td>Sensor is miswired</td>
<td>Check sensor wiring (refer to the sensor manufacturer’s instructions)</td>
</tr>
<tr>
<td>Sensor wired directly to an EcoSystem device is not found during sensor setup</td>
<td>Sensor was added after “Build System” command was run or EcoSystem device may not have detected sensor</td>
<td>Create motion (occupancy) or induce light (daylight) within the sensor’s range and run the appropriate “Sensor Setup” command</td>
</tr>
<tr>
<td>EcoSystem device light levels can be lowered, but not raised to full On</td>
<td>EcoSystem device is being affected by the daylight sensors</td>
<td>Recalibrate the associated daylight sensors</td>
</tr>
</tbody>
</table>
Warranty
Lutron Electronics Co., Inc.
One Year Limited Warranty
For a period of one year from the date of purchase, and subject to the exclusions and restrictions described below, Lutron warrants each new unit to be free from manufacturing defects. Lutron will, at its option, either repair the defective unit or issue a credit equal to the purchase price of the defective unit to the Customer against the purchase price of comparable replacement part purchased from Lutron. Replacements for the unit provided by Lutron or, at its sole discretion, an approved vendor may be new, used, repaired, reconditioned, and/or made by a different manufacturer.
If the unit is commissioned by Lutron or a Lutron approved third party as part of a Lutron commissioned lighting control system, the term of this warranty will be extended, and any credits against the cost of replacement parts will be prorated, in accordance with the warranty issued with the commissioned system, except that the term of the unit’s warranty term will be measured from the date of commissioning.

EXCLUSIONS AND RESTRICTIONS
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2. On-site labor costs to diagnose issues with, and to remove, repair, replace, adjust, reinstall and/or reprogram the unit or any of its components.
3. Equipment and parts external to the unit, including those sold or supplied by Lutron (which may be covered by a separate warranty issued with the commissioned system, except that the warranty on the commissioned system, except that the warranty on the commissioned system, except that the warranty period is defined by the warranty issued with the commissioned system).
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To make a warranty claim, promptly notify Lutron within the warranty period described above by calling Lutron Customer Assistance at 1.844.LUTRON1. Lutron, in its sole discretion, will determine what action, if any, is required under this warranty. To better enable Lutron to address a warranty claim, have the unit’s serial and model numbers available when making the call. If Lutron, in its sole discretion, determines that an on-site visit or other remedial action is necessary, Lutron may send a Lutron Services Co. representative or coordinate the dispatch of a representative from a Lutron approved vendor to Customer’s site, and/or coordinate a warranty service call between Customer and a Lutron approved vendor.

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