

# Guestroom Controller

The Lutron Hospitality Guestroom Control Unit provides control and communications to Lutron® QS system components for lighting and drupe control and provides a communication link that integrates it to the VingCard® Orion guestroom energy management system through the in-room thermostat.

When integrated with the VingCard® Orion system, guestroom lighting, drupe, and temperature control can be automated for guest comfort when the room becomes occupied and for energy savings when the room is vacant. It also allows the room lighting, drupe status and room lighting energy usage to be displayed on the Orion system dashboard.

## Model Number

GCU-VC



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## LUTRON® SPECIFICATION SUBMITTAL

Page

<p><b>Job Name:</b></p> <p><b>Job Number:</b></p>	<p><b>Model Numbers:</b></p>
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## Specifications

### Power

- Processor (P): 24 V $\overline{=}$  250 mA
- Links (L1/L2): 24 V $\overline{=}$  2 A per link

### Typical Power Consumption

- 5 W; 8 Power Draw Units (PDUs)

### Environment

- Indoor use only. 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing

### Cooling Method

- Passive Cooling

### Internal Timeclock

- $\pm$ 1 minute per year

### Power Failure Memory

- System data stored in non-volatile memory. Timeclock retention for 10 years.

### Miswire Protection

- All terminal block inputs are over-voltage and miswire protected against wire reversals and shorts.

### Comminations Link Wire Type

- Two pair — one pair 18 AWG (0.75 mm<sup>2</sup>), one pair 18 to 22 AWG (0.75 to 0.34 mm<sup>2</sup>) twisted shielded — IEC PELV / NEC<sup>®</sup> Class 2 cable
- Total wire length for each link must not exceed 500 ft (152.4 m)

### Power Supply Wire Type

- 18 AWG (0.75 mm<sup>2</sup>)
- Total wire length for each link must not exceed 500 ft (152.4 m)

### System Capabilities

- Allows seeTouch<sup>®</sup> and Pico<sup>®</sup> buttons to be programmed as:
  - Single action scene select
  - Scene toggle (Scene / OFF)
  - Zone toggle (ON Level / OFF)
  - Scene raise
  - Scene lower
  - Zone raise
  - Zone lower
- Simple conditional logic is possible on a button press, allowing the controller to, for example, select a different entry scene for the guest based on the time of day. This logic can also be used for programming Make Up Room, Do Not Disturb, and Doorbell controls.
- Uses the guestroom load schedule information entered at start-up time to do lighting energy usage calculations and sends this energy usage data to the VingCard<sup>®</sup> system for display on the Orion dashboard.
- Reports Lutron<sup>®</sup> button press activity to the VingCard<sup>®</sup> system as an additional indicator of occupancy in the room.
- Reports the room lighting status to the VingCard<sup>®</sup> system. Lighting status is reported as one of two states:
  - All lights are off
  - Any light is on
- Reports the room shade status to the VingCard<sup>®</sup> system. Shade status is reported as one of two states:
  - All shades are closed
  - Any shade is not closed

\* Each terminal will accept up to two 18 AWG (0.75 mm<sup>2</sup>) wires.

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Job Name:	Model Numbers:
Job Number:	

## Specifications *(continued)*

### Link Capacities

- QS Wired Device Link - 100 devices / 500 zones
- VingCard® Orion Link – 1 Thermostat

### Connections

- Two 5-pin removable terminal blocks\* for Links 1 and 2.
- One 5-pin removable terminal block\* for Power Input.

### Communication Links

- Each Guestroom Control Unit has three communication links:
  - Link 1: Lutron® QS wired device link, up to 100 devices and 500 zones
  - Link 2: VingCard® Orion thermostat interface link. For 2-way communication with the VingCard® Orion system.
  - Ethernet: Used for system start-up.

### Programmable Room Events

- The following guestroom events are programmable in the room controller:
  - Room occupied for the first time by a new guest
  - Room occupied subsequent time by guest
  - Room occupied by staff
  - Room vacant (and currently sold)
  - Room becomes unsold

Each event can be programmed to select different lighting and shade scenes, and can be conditional on the time of day (eg. day or evening entry into the room).

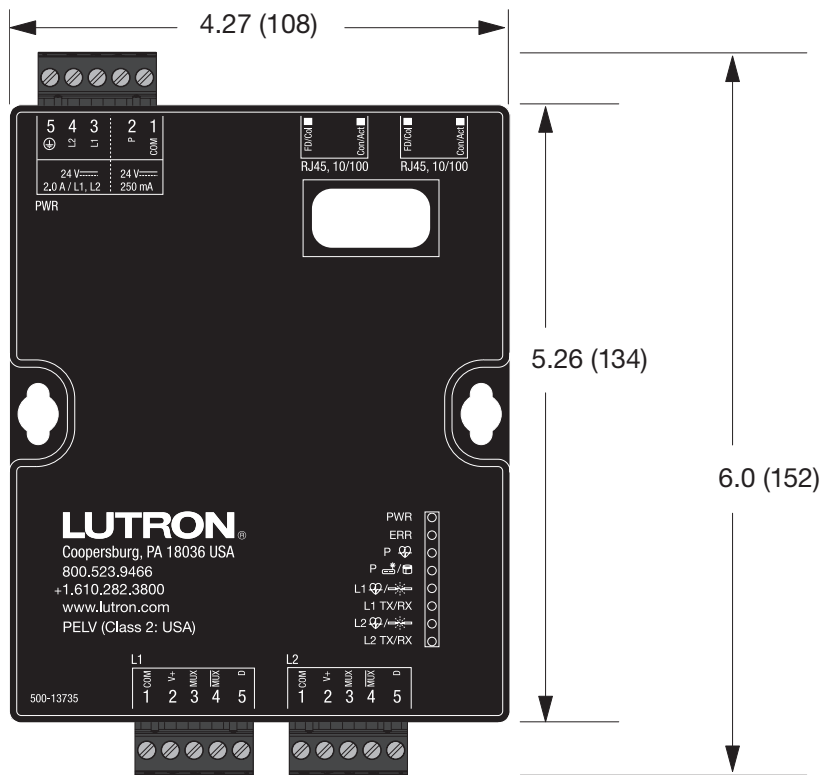
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<b>Job Name:</b>	<b>Model Numbers:</b>
<b>Job Number:</b>	

### Dimensions

Dimensions shown as: in (mm)

#### Front View



#### Side View



Job Name:	Model Numbers:
Job Number:	