0–10V Single room solutions

**Model number** | **Description** | **List Price (US)**
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**Diva** | 8A lighting, 120–277V, 3-way/single pole, no neutral, or power pack required | 90.00
**NTSTV-DV** | 8A lighting, 120–277V, no neutral or power pack required | 130.00
**Maestro Dimmer Sensors** | 8A lighting 120–277V, occupancy/vacancy multi-location/3-way/single pole | 110.00
**MS-Z101** | 8A lighting 120–277V, vacancy only multi-location/3-way/single pole | 110.00
**PowPak dimming module** | 5A lighting, 120–277V | 130.00
**PowPak wireless fixture controls** | 0–10V control module | 78.00
**FCJS-010** | EcoSystem control module | 78.00
**FCJS-010-BULK8** | 0–10V control module, 8-pack | 600.00
**FCJS-ECHO-BULK8** | EcoSystem control module, 8-pack | 600.00
**FC-SENSOR** | Occupancy/daylight sensor | 35.00
**FC-VSENSOR** | Vacancy/daylight sensor | 35.00
**Radio Powr Savr sensors & Pico wireless remotes** | Ceiling-mount, 360° field-of-view, occupancy/vacancy sensor | 85.00
**LRF2-OCL2B-P-WH** | Wall-mount, 180° field-of-view, occupancy/vacancy sensor | 85.00
**LRF2-OWL2B-P-WH** | Corner-mount, 90° field-of-view, occupancy/vacancy sensor | 85.00
**LRF2-OHL2B-P-WH** | Hallway, occupancy/vacancy sensor | 85.00
**LRF2-DCRB-WH** | Ceiling-mount daylight sensor | 120.00
**PJ2-3BRL-GWH-L01** | Pico wireless remote with on/off, raise/lower, and favorite button | 21.00

*Price indicated for gloss finish. (White)*
0–10V is quickly becoming one of the more popular dimming technologies in commercial spaces. Lutron offers a variety of control options to give you both high-quality dimming capabilities and additional opportunities to save energy. These control options allow you to take advantage of multiple energy-saving strategies.

### Lutron energy-saving strategies

- **Dimming**
  Gives occupants the ability to set the light levels.

- **Occupancy/vacancy sensing**
  Turns lights on when occupants are in a space and dims lights to a low level or turns lights off when they vacate the space.

- **Personal dimming control**
  Gives occupants the ability to set the light levels.

- **Daylight harvesting**
  Dims electric light when daylight is available to light the space.

- **High-end trim**
  Sets the maximum light level based on customer requirements in each space.

### Table of contents

#### Dimming
- **Diva**
  0–10V dimmer
  page 4
- **Nova T**
  0–10V dimmer
  page 6

#### Dimming and sensing
- **Maestro 0–10V**
  dimmer sensor
  page 8

#### Dimming, sensing, personal control, and daylight harvesting
- **PowPak dimming module with**
  0–10V control
  page 10

#### Individual fixture dimming, sensing, personal control, and daylight harvesting
- **PowPak wireless fixture control and**
  PowPak fixture sensor
  page 12
Dimming

Diva 0–10V
• 0–10V dimmer for fluorescent and LED fixtures
  Two models available:
  • DVSTV
    - Controls 120–277V without a power pack
    - Provides 3-way preset switching functionality
  • DVTV
    - Requires a power pack
    - Use with a power pack for Class 2 installations, with wired occupancy sensors, for 347V operation, and for loads greater than 8A

Models/Price
DVSTV (gloss): $90 List, Satin Colors—$100 list
DVTV (gloss): $94.50 List, Satin Colors—$104.50 list

Voltage
• DVSTV
  - 8A, 120–277V
• DVTV
  - 16A with PP-DV, 120–277V
  - 16A with PP-347, 347V

Ideal for applications requiring 0–10V fixtures, such as private offices and conference rooms

The Lutron Advantage
• Patented technology extends relay life to 10 years
• Low-end and high-end trim in one product
• No derating for 277V installations
• No neutral

Energy-saving strategies
• Dimming
• High-end trim

Codes met
• Automatic shut-off with wired occupancy sensors through a power pack
• Area control
• Multi-level lighting control

Application examples: Conference room

Without power pack (DVSTV Only)

With power pack (DVTV Only)
Dimming

Nova T® 0–10V
• 0–10V spec grade dimmer that can switch line voltage for fluorescent ballasts and LED drivers
• Controls 120–277V without a power pack
• Power pack required for Class 2 installations, for 347V operation (Canada), and for loads greater than 8A
• Works with wired occupancy/vacancy sensors with the addition of the respective power pack

Models/Price
NTSTV: $130 List

Voltage
• 8A, 120–277V, up to 16A with the addition of a power pack (PP-DV)
• 16A, 347V (with power pack PP–347H)

Ideal for applications requiring 0–10V fixtures, such as private offices, conference rooms, and hospitals

Energy-saving strategies
• Dimming
• High-end trim
• Occupancy sensing

Codes met
Automatic shut-off with wired occupancy sensors through a power pack
• Area control
• Multi-level lighting control

Application examples: Conference room

Without power pack

With power pack
Dimming and sensing

Maestro 0–10V dimmer sensor

- Dims 0–10V LED drivers or electronic fluorescent ballasts
- XCT PIR sensing
- Single pole or 3-way with Maestro companion or mechanical switch
- Neutral connection optional
- Sinking control for sourcing fixtures
- High- and low-end trim

Models/Price
- MS-Z101: $110 List
- MS-Z101-V: $110 List

Voltage
- 8 A, 120–277 V

Ideal for small spaces such as private offices, small classrooms, and equipment rooms

Application example: Private office

The Lutron Advantage
- Miswire and load incompatibility alert — lens will flash red if control is miswired or connected to an incompatible fixture
- Optimized dimming performance with selectable dimming curve and smooth fade to on and fade to off
- Lutron’s XCT sensing technology
- Smart ambient light detection learns users preferred light level and keeps lights off when sufficient daylight is available
- Lutron’s Adaptive Zero-Cross Switching extends relay lifetime

Energy-saving strategies
- Occupancy/Vacancy sensing
- Dimming
- Area control
- Multi-level lighting control

Codes met
- Automatic shut-off
- Area control
- Multi-level lighting control

Coverage patterns

Horizontal Beam Diagram

Vertical Beam Diagram

Lines-voltage wiring
Low-voltage wiring

Application example: Private office

Energy-saving strategies
- Occupancy/Vacancy sensing
- Dimming
- Area control
- Multi-level lighting control

Codes met
- Automatic shut-off
- Area control
- Multi-level lighting control

Coverage patterns

Horizontal Beam Diagram

Vertical Beam Diagram

Major motion
Minor motion
coverage (900 sq ft)
coverage (400 sq ft)
Dimming, sensing, personal control, and daylighting harvesting

**PowPak 0–10V**
- Junction-box mounted dimming module that controls 0–10V fixtures
- Auto adapts to sink/source fixtures
- PowPak dimming module with EcoSystem also available

**Models/Price**
RMJS-8T-DV-B: $150 List

**Voltage**
120–277V

**Ideal for**
larger conference rooms, larger classrooms, and training rooms

The PowPak 0–10V dimming module is a part of the Vive wireless solution, which includes the following:
- Radio Powr Savr wireless occupancy/vacancy sensors
- Radio Powr Savr daylight sensors
- Pico wireless remote
- Maestro Wireless dimmers and switches
- PowPak dimming and switching modules
- PowPak receptacle control modules
- Individual wireless fixture control

**The Lutron Advantage**
- XCT sensing technology
- Clear Connect RF technology
- Easy button-press setup
- Wireless sensors can be easily moved

**Energy-saving strategies**
- Occupancy sensing
- Personal control
- Daylight harvesting
- High-end trim

**Codes met**
- Automatic shut-off
- Multi-level daylight control
- Multi-level lighting control
- Area control

**Application example: Classroom**

**Vive wireless components (works with PowPak 0–10V)**

- Radio Powr Savr occupancy/vacancy sensors
- Radio Powr Savr daylight sensor
- Pico wireless remote
- Vive hub
Individually dimming, sensing, personal control, and daylight harvesting

**PowPak wireless fixture control**
- Adds wireless control to each individual 0–10V or EcoSystem fixture in a space
- Enables combined occupancy detection and daylight harvesting at the individual fixture level
- Works with Lutron's Radio Powr Savr wireless sensors and Pico wireless remotes

**Models/Price**
- FCJS-010: $78 List
- FCJS-ECO: $78 List
- FCJS-010-BULK8: $600 List (contractor 8-pack, $75 list per unit)
- FCJS-ECO-BULK8: $600 List (contractor 8-pack, $75 list per unit)
- FC-SENSOR: $35 List
- FC-VSENSOR: $35 List

**Voltage**
120–277V

**Ideal for** open offices and cafeterias

PowPak wireless fixture control is a part of the Vive solution. See pages 10–11 for more information.

**The Lutron Advantage**
- Simple to design and estimate — just count the fixtures
- No additional wiring required — Works with existing high-voltage wiring; add/relocate Pico wireless remotes and sensors at any time, and reconfigure zones with no new wiring
- Works out of the box — no complex computer programming; associate Pico wireless remotes with just a button press or green laser
- Proven technology means no callbacks — uses XCT sensing technology and Clear Connect RF wireless communication

**Energy-saving strategies**
- Occupancy sensing
- Personal control
- Daylight harvesting
- High-end trim

**Codes met**
- Automatic shut-off
- Multi-level daylight control
- Multi-level lighting control
- Area control

**Application example: Open offices**

 powPak wireless fixture control is a part of the Vive solution. See pages 10–11 for more information.
In addition to 0–10V solutions, look to Lutron as your leader in LED dimming technology. We offer superior technology for standalone, as well as system-based dimming, for both analog and digital control.

We also provide the highest quality products across these LED control types, for LED solutions you can count on.

C·L technology for screw-in bulbs

Lutron C·L products fix the issues with lamp compatibility.

• C·L technology provides superior dimming
• Works with dimmable screw-in LEDs and CFLs, and incandescent/halogen bulbs — even mixed on the same circuit
• Helps future-proof dimmer installations as the bulb landscape changes from incandescent bulbs to LEDs
• High-performance dimming minimizes problems seen with other dimmers, including flicker, shimmer, and pop-on

Light bulb compatibility

• UL Listed to control over 600 different LED and CFL bulbs. The bulb list is available at: lutron.com/bulblist
  ■ = unique LED or CFL bulb model type

Lutron over 600 bulbs

Other companies 100 bulbs (on average)
Leader in LED dimming technology

EcoSystem technology for individual fixture control

- **Simplify your lighting control projects with Lutron EcoSystem**
  Guaranteed compatibility between Lutron controls, drivers, and sensors — backed by Lutron quality and 24/7 service.

- **Meet stringent energy codes and green building standards**
  EcoSystem digital addressability allows you to easily implement automatic shut-off, daylight harvesting, and dimming for multi-level control.

- **Design for change**
  Digital fixture control means you can easily adapt to change during design and commissioning, as well as during times of churn — without rewiring.

LED driver options

**5-Series**
- Energy-saving, smooth 5% dimming, without compromising on dimming quality
- Ideal for downlights, troffers, and linear lighting
- Available in K and M case models

**A-Series**
- Smooth, 1% dimming for architectural applications
- Ideal for downlight, cove, and linear lighting
- Available in K and M case models
- UL Listed option also available — KL case model

**H-Series**
- Provides smooth, continuous 1% dimming
- High-performance solution for any space, in any application
- Available in K and M case models

Scaling from a single room to a whole building

**GRAFIK T Dimmer and Switch**
Perfect for executive offices, conference, and board rooms, GRAFIK T reinvents the way we interact with lighting controls — no knobs, sliders, or buttons — just touch. Available in over 40 colors and finishes, including metal and glass, to complement any design and add style to any space.

**GRAFIK Eye QS**
Perfect for conference rooms, GRAFIK Eye QS is a customizable preset lighting control system that allows you to adjust lights and shades for any task.

**Energi Savr Node Solutions**
For open office spaces, Energi Savr Node provides a flexible lighting control system comprised of digital fluorescent dimming ballasts, LED drivers, controls, and sensors.

**Panel Solutions**
Traditional panel-based systems offer a simple, easy-to-maintain solution for areas with higher wattage lighting zones.

**Quantum**
Quantum is a lighting control and energy management system for an entire floor, building, or campus.

*Requires interface

† California Title 24, ASHRAE 90.1, ASHRAE189.1, IECC, IgCC
The LED Control Center of Excellence is designed to help you correctly specify, install, and use LEDs. Through the LED Control Center of Excellence we test LEDs on a continuing basis for compatibility with our controls and drivers, providing a level of customer guidance you won’t find anywhere else.

**Lutron.com/LEDTool**
Visit the LED Control Center of Excellence to find tested LED solutions that will ensure compatibility between Lutron controls and drivers, and other LED products.

**Lutron.com/FindAFixture**
Select fixtures available with Lutron dimming performance, reliability, and guaranteed compatibility for 2-wire forward phase, 3-wire, EcoSystem, and Eco-embedded control options.