0–10V Single room solutions

**Standalone**
- Diva 0–10V dimmer
- Nova T☆ 0–10V dimmer
- Maestro 0–10V dimmer sensor

**Wireless**
- PowPak wireless fixture controller and PowPak fixture sensor
- PowPak dimming module with 0–10V control
- Maestro Wireless 0-10V dimmer sensor
- Radio Powr Savr occupancy and daylight sensors, and Pico wireless remote
0–10V is a common control protocol that you can find across the lighting industry. Originally developed for fluorescent ballast control, 0–10V has become one of the most common control protocols in the growing LED market.

Lutron offers a variety of 0-10V 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**
  - Full On
  - Dim
  - Gives occupants the ability to set the light levels.

- **Occupancy/vacancy sensing**
  - Occupied: On
  - Vacant: Off
  - 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**
  - Full On
  - Dim
  - Gives occupants the ability to set the light levels.

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

- **High-end trim**
  - Max: 100%
  - Max: 80%
  - Sets the maximum light level based on customer requirements in each space.
Dimming

**Diva 0–10 V dimmer**
- 0–10 V dimmer for LED and fluorescent fixtures
- Two models available:
  - DVSTV
    - Controls 120–277 V 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 347 V operation, and for loads greater than 8 A

**Models/Price**
- DVSTV (gloss): $97 List
- DVSCSTV (Satin Colors): $110 List
- DVTV (gloss): $105 List
- DVSCSTV (Satin Colors): $115 List

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

**Ideal for** private offices and conference rooms

**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

**The Lutron Advantage**
- Spec grade with heavy-duty components for surge protection and long life
- Low-end and high-end trim in one product
- No derating for 277 V installations
- No neutral required

**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

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

**Models/Price**
NTSTV-DV: $140 List

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

**Ideal for** private offices, conference rooms, and hospitals

**Application examples: Conference room**

**Without power pack**

**With power pack**
Dimming and sensing

Maestro 0–10 V dimmer sensor

- Dims 0–10 V 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 (occupancy/vacancy): $110 List
MS-Z101-V (vacancy only): $110 List

Voltage
8 A, 120–277 V

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

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
- High-end trim

Codes met

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

Application example: Private office

Coverage patterns

Horizontal Beam Diagram

Vertical Beam Diagram
Dimming, sensing, personal control, and daylight harvesting (j-box)

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

**Models/Price**
- RMJS-8T-DV-B (connector): $152 List
- RMJS-8TN-DV-B (flying leads): $152 List

**Voltage**
8 A, 120–277 V

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

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

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

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

**The Lutron Advantage**
- Push-button setup — utilizes simple button-press programming to select and associate wireless devices
- Proven technology means no callbacks — uses Lutron’s XCT sensing technology (Radio Powr Savr sensors) and Clear Connect RF wireless communication
- Add/relocate wireless remotes and sensors at any time with no new wiring

**Application example: Classroom**

**Vive wireless components (work with PowPak dimming module and Maestro Wireless dimmer sensor)**
Line-voltage wiring

Dimming, sensing, personal control, and daylight harvesting (in-wall)

Maestro Wireless 0-10V dimmer sensor
- Dims 0-10V LED drivers or electronic fluorescent ballasts
- XCT PIR sensing
- Single pole or multi-location with a Pico wireless remote
- Neutral required
- High-end and low-end trim

Models/Price
MRF2S-8SD010 (occupancy/vacancy): $180 List
MRF2S-8SDV010 (vacancy only): $180 List

Voltage
8A, 120/277V

Ideal for private offices, classrooms, conference rooms, and equipment rooms

Maestro Wireless 0-10V dimmer sensor is a part of the Vive solution. See pages 10-11 for more information.

The Lutron Advantage
- Combines the simplicity of an in-wall sensor with the scalability of a Vive system. You can easily add wireless devices, for another point of control, additional occupancy coverage, or daylight sensing when needed
- Lutron’s XCT sensing technology
- Smart ambient light detection learns users preferred light level and keeps lights off when sufficient daylight is available

Energy-saving strategies
- Occupancy/Vacancy sensing
- Dimming
- Personal control
- Daylight harvesting
- High-end trim

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

Coverage patterns

Application example: Breakroom

Horizontal Beam Diagram

Vertical Beam Diagram

- Line-voltage wiring

4 ft
(1.2 m)

0 10 ft
(3 m) 20 ft
(6 m) 30 ft
(9 m)

30 ft
(9 m)

25 ft
(7.5 m)

20 ft
(6 m)

15 ft
(4.5 m)

10 ft
(3 m)

5 ft
(1.5 m)

0 5 ft
(1.5 m) 10 ft
(3 m) 15 ft
(4.5 m) 20 ft
(6 m) 25 ft
(7.5 m) 30 ft
(9 m)

Major motion coverage (900 sq ft)
Minor motion coverage (400 sq ft)
Individual fixture dimming, sensing, personal control, and daylight harvesting

PowPak wireless fixture controller with 0-10V control

- Adds wireless control to each individual 0–10 V LED or fluorescent fixture in a space
- Enables combined occupancy detection and daylight harvesting at the individual fixture level

Models/Price
FCJS-010: $79 List
FCJS-010-BULK8: $610 List
(Contractor 8-pack, $76.25 List per unit)
FC-SENSOR: $35 List
FC-VSENSOR: $35 List

Voltage
1A, 120–277 V

Ideal for open offices and cafeterias

The Lutron Advantage
- Simple to design and estimate — just count the fixtures
- No additional wiring required — works with existing high-voltage wiring; add more 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 Lutron’s XCT sensing technology (fixture sensor) and Clear Connect RF wireless communication

Energy-saving strategies
- Occupancy sensing
- Dimming
- 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 controller is a part of the Vive solution. See pages 10–11 for more information.
Leader in LED dimming technology

In addition to 0–10 V 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.

Lutron dimmers with LED+™ technology (formerly C•L) fix the issues with lamp compatibility

- Provides superior dimming of LEDs and incandescent/halogen bulbs
- Works with dimmable screw-in LEDs 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 bulbs. Easily find the right LED bulb for your dimmer at: lutron.com/LEDfinder.

Lutron dimmers with LED+ technology

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Scaling from a single room to a whole building

**GRAFIK Eye Q5**
Perfect for conference rooms, GRAFIK Eye Q5 is a customizable preset lighting control system that allows you to adjust lights and shades for any task.

**Vive**
Vive is a simple, scalable, wireless control solution that can be installed in a single space or throughout an entire campus. Designed to be used in new construction or retrofit applications, Vive offers a wide variety of products—including sensors, remotes, load controls, and a software management suite.

**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.

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### Model number | Description | List Price (US)*
--- | --- | ---
**Diva dimmers**
DVSTV | 8 A lighting, 120–277 V, 3-way/single pole, no neutral or power pack required (gloss) | 97.00
DVSCSTV | 8 A lighting, 120–277 V, 3-way/single pole, no neutral or power pack required (Satin Colors) | 110.00
DVTV | 16 A lighting, 120–277 V, single pole, power pack required (gloss) | 105.00
DVSCSTV | 16 A lighting, 120–277 V, single pole, power pack required (Satin Colors) | 115.00

**Nova T® dimmer**
NTSTV-DV | 8 A lighting, 120–277 V, no neutral or power pack required | 140.00

**Maestro dimmer sensors**
MS-Z101 | 8 A lighting, 120–277 V, occupancy/vacancy, multi-location/3-way/single pole | 110.00
MS-Z101-V | 8 A lighting, 120–277 V, vacancy only, multi-location/3-way/single pole | 110.00

**PowPak dimming module**
RMJS-8T-DV-B | 5 A lighting, 120–277 V, connector | 152.00
RMJS-8TN-DV-B | 5 A lighting, 120–277 V, flying leads | 152.00

**Maestro Wireless dimmer sensors**
MRF2S-8SD010 | 8 A lighting, 120/277 V, occupancy/vacancy, multi-location/single pole | 180.00
MRF2S-8SDV010 | 8 A lighting, 120/277 V, vacancy only, multi-location/single pole | 180.00

**PowPak wireless fixture controllers and fixture sensors**
FCJS-010 | 0–10 V control module | 79.00
FCJS-010-BULK8 | 0–10 V control module, 8-pack | 610.00
FC-SENSOR | Occupancy/daylight sensor | 35.00
FC-VSENSOR | Vacancy/daylight sensor | 35.00

**Radio Powr Savr sensors and Pico wireless remotes**
LRF2-OCR2B-P-WH | Ceiling-mount, 360° field-of-view, occupancy/vacancy sensor | 89.00
LRF2-OHLB-P-WH | Hallway, occupancy/vacancy sensor | 89.00
LRF2-OHLB-P-WH | Corner-mount, 90° field-of-view, occupancy/vacancy sensor | 89.00
LRF2-OHLB-P-WH | Hallway, occupancy/vacancy sensor | 89.00
LRF2-DCLR8-WH | Ceiling-mount daylight sensor | 125.00
RJ2-3BRL-GWH-L01 | Pico wireless remote with on/off, raise/lower, and favorite button | 21.00

*Price indicated for gloss finish (White)