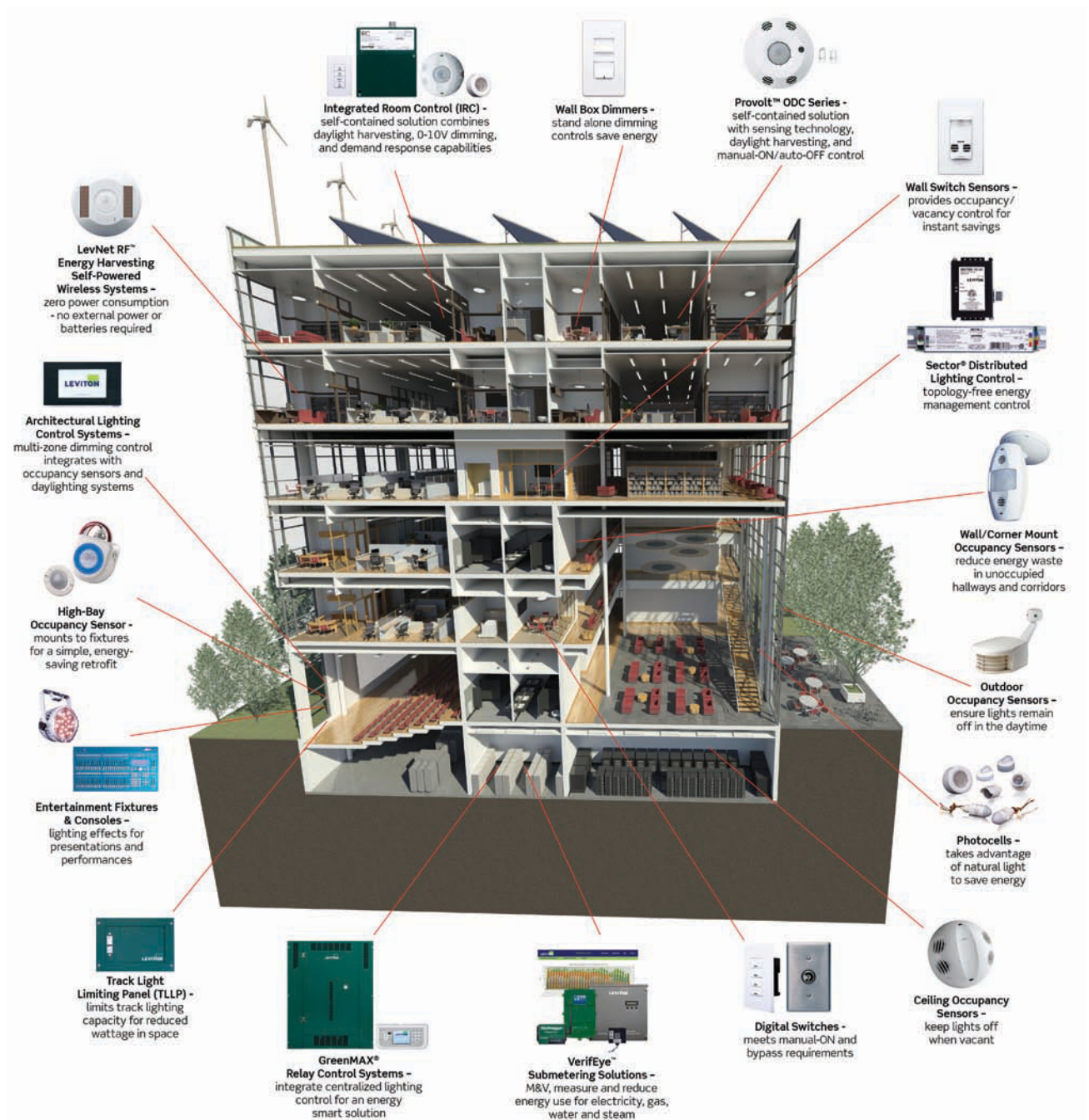


California Title 24 2013

Design Guide for Smart Lighting Control and Energy Solutions





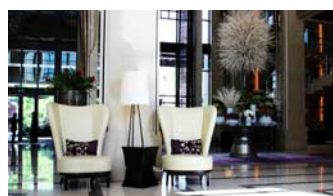
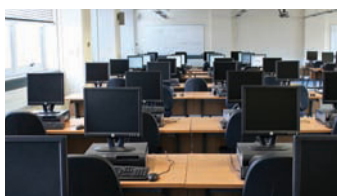
Energy efficiency is more than a single system. It requires a whole building approach.

The basic goal of Title 24 energy standards is the reduction of energy use. A simple and efficient strategy to improve energy efficiency is to automatically turn off lights and devices when they are not in use.

Since lighting currently accounts for nearly 30 percent of California's electricity use, the extensive use of lighting controls is essential and makes up one of the more significant changes to Title 24 2013.

Design Guide for Title 24 Compliant Lighting Control and Energy Solutions

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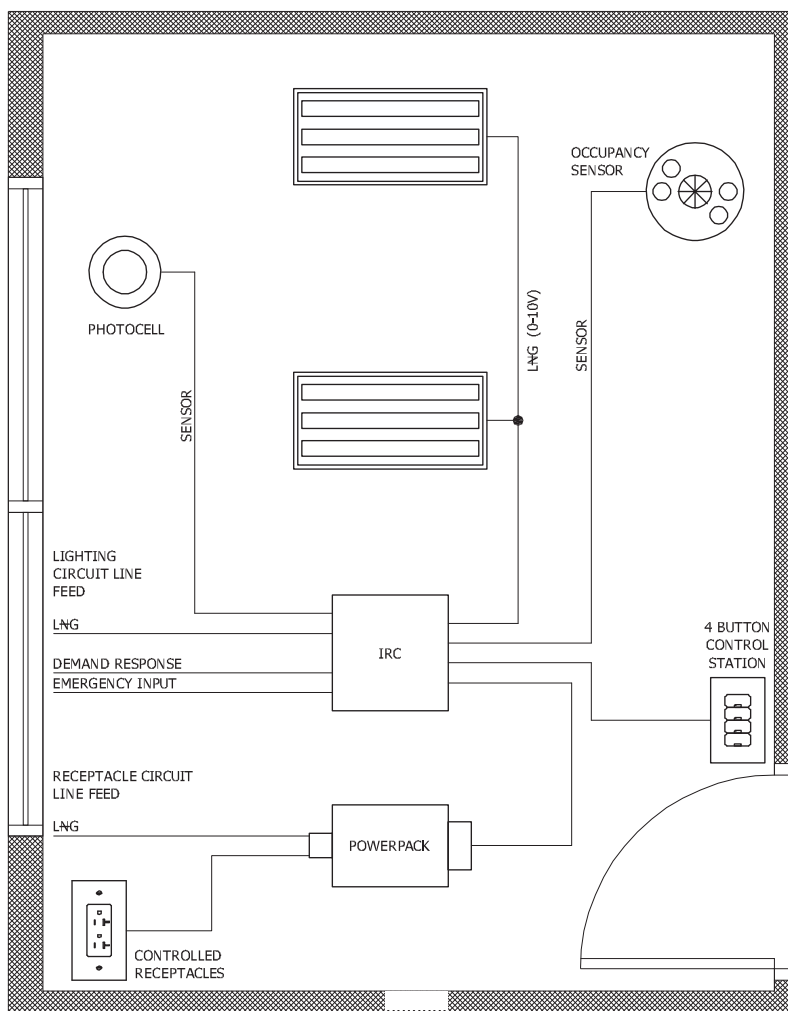
Disclaimer:

This document is for informational purposes only. Each project will have its own specific requirements for satisfying Title 24 code compliance based on a variety of factors. Other exceptions or details may apply. Review the code for specific requirements and/or consult with a professional advisor. Leviton Mfg. Co., Inc. is not responsible for any loss resulting from the use of any information found in this document.

Solutions are subject to change without notice.

For additional assistance, contact your local Leviton representative.

Small Office Control Solution featuring Integrated Room Control (IRC)



Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
 - Task Tuning
 - Partial-ON/OFF
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
- Section 130.5(d)
 - Receptacle Control/ Plug Load Control

Notes:

- Demand response required in all buildings larger than 10,000SF
- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	IRC Kit for 2 Zones, 2 Relays - includes IRC, sensor, photocell, and control station RCD20-102	1
	 IRC for 2 Zones, 2 Relays MZD20-102	
	 Multi-Tech Ceiling Mount Occupancy Sensor, 1000SF OSC10-M0W	
	 Photocell, Indoor ODC0P-00W	
	 Lighting Control Station RLVSW-4LW	
	OPP20 Super Duty Power Pack OPP20-0D1	1
	Controlled Receptacle, Marked XXXXX-XXX	X

Featured Leviton Title 24 Solution

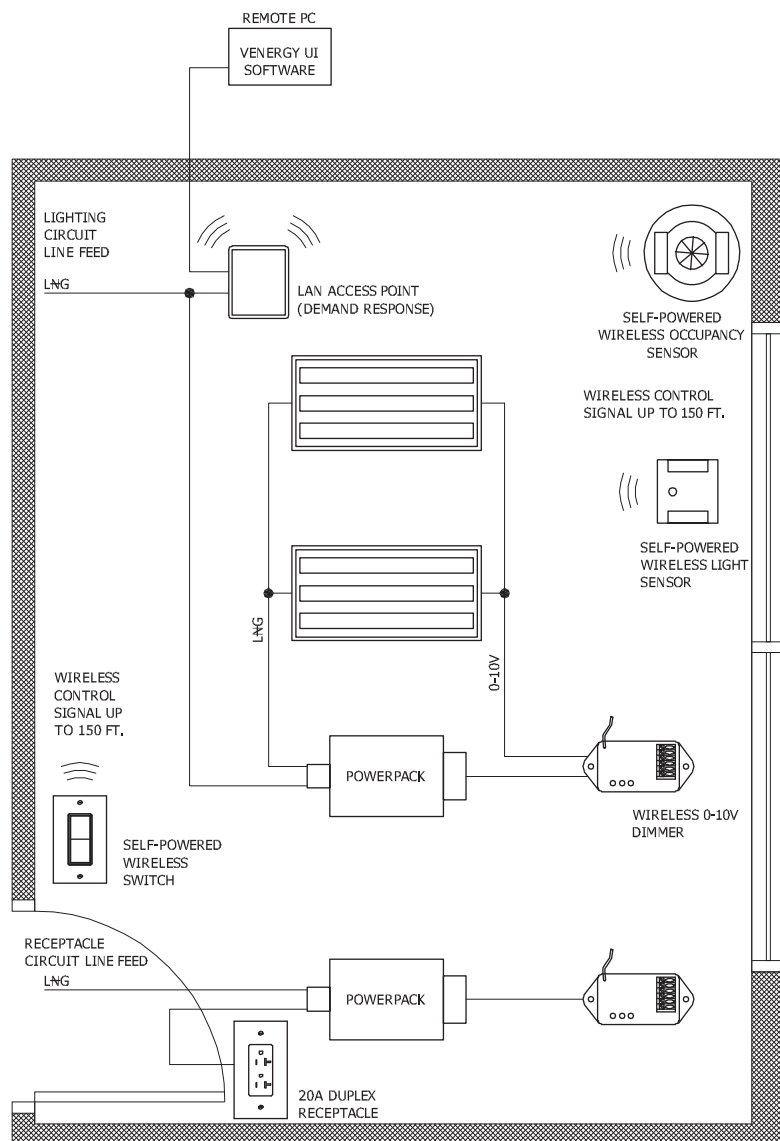
Integrated Room Control (IRC)

- Combines occupancy sensing, daylight harvesting, 0-10V dimming, partial ON, partial OFF, and demand response capabilities in a stand-alone package
- Kitted with factory configured sensor, photocell, and 4-button switch
- Autocal™ automatic photocell calibration and Ladderless Commissioning™
- Easy automatic closed or open loop multi-zone daylight harvesting control design
- Auto 100 hour burn-in



Small Office Control Solution

featuring LevNet RF™ Energy Harvesting Wireless Solutions



Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
- Section 130.5(d)
 - Receptacle Control/ Plug Load Control

Notes:

- Demand response required in all buildings larger than 10,000SF
- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	LevNet RF Self-Powered PIR Occupancy Sensor WSCxx-IRW	1
	LevNet RF Self-Powered Light Sensor WSCPC-00W	1
	LevNet RF 0-10V Dimmer WSD01-010	2
	LevNet RF Self-Powered Switch WSS0S-D0W	1
	OPP20 Super Duty Power Pack OPP20-0D1	2
	Controlled Receptacle, Marked XXXXX-XXX	x
	LevNet RF LAN Access Point & Venergy UI Software WSAP0-TIP	1

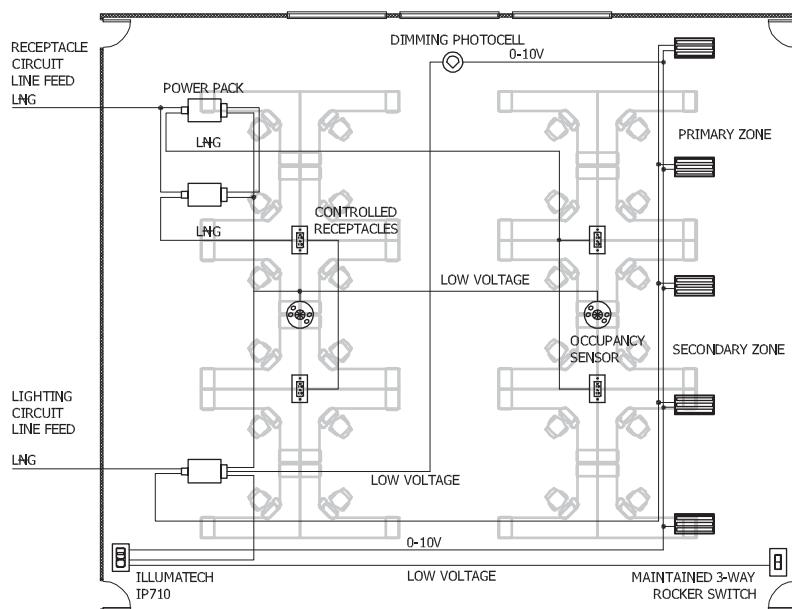
Featured Leviton Title 24 Solution

LevNet RF™ Energy Harvesting Self-Powered Wireless Solutions

- No wires to run and no batteries required - install in 1/4th the time—eliminating time and expense of control wiring
- Broad range of switches and control modules to meet virtually any control need including a Receptacle and engraved cover plate to meet plug load control code requirements
- Enables rapid retrofit with minimal impact



Open Office Control Solution featuring Sensing Control








Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.5(d)
 - Receptacle Control/ Plug Load Control

Notes:

- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	Ultrasonic Ceiling Mount Occupancy Sensor OSCxx-U0W	2
	Photocell, 1-10V Dimming ODC0P-D 0W	1
	Illumatech Dimmer IP710-xxx	1
	Decora Rocker, 3-way 05633-xxx	1
	OPP20 Super Duty Power Pack OPP20-RD4	3
	Controlled Receptacle, Marked XXXXX-XXX	x

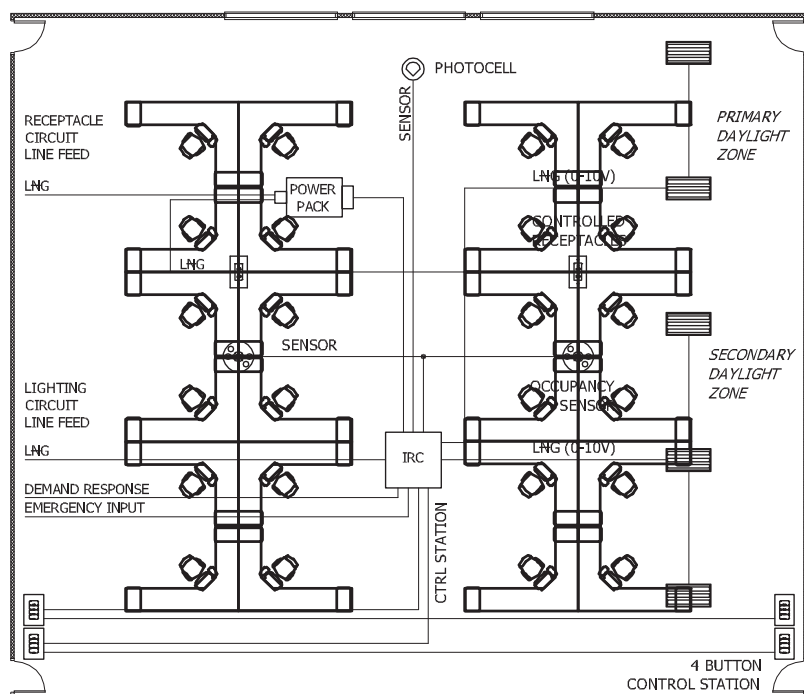
Featured Leviton Title 24 Solution

Sensing Control

- Broadest range of sensors for any application
- Provolt™ integrates occupancy sensing, daylight harvesting, and manual-ON/auto-OFF override control in a single unit - no special control stations required
- Plug load control with OPP20 Super Duty Power Pack
- 24V AC/DC input for integration with HVAC/BAS systems
- Industry leading layout and application services



Open Office Control Solution featuring Integrated Room Control (IRC)



Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
 - Task Tuning
 - Partial-ON/OFF
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
 - Power Reduction Controls
- Section 130.5(d)
 - Receptacle Control/
 - Plug Load Control

Notes:

- Demand response required in all buildings larger than 10,000SF
- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	IRC Kit for 2 Zones, 2 Relays - includes IRC, sensor, photocell, and control station RCD20-102	1
	IRC for 2 Zones, 2 Relays MZD20-102	
	Multi-Tech Ceiling Mount Occupancy Sensor, 1000SF OSC10-M0W	
	Photocell, Indoor ODC0P-00W	
	Lighting Control Station RLVSW-4LW	
	Multi-Tech Ceiling Mount Occupancy Sensor, 1000SF OSC10-M0W	1
	Lighting Control Station RLVSW-4LW	3
	OPP20 Super Duty Power Pack OPP20-0D1	1
	Controlled Receptacle, Marked XXXXX-XXX	x

Featured Leviton Title 24 Solution

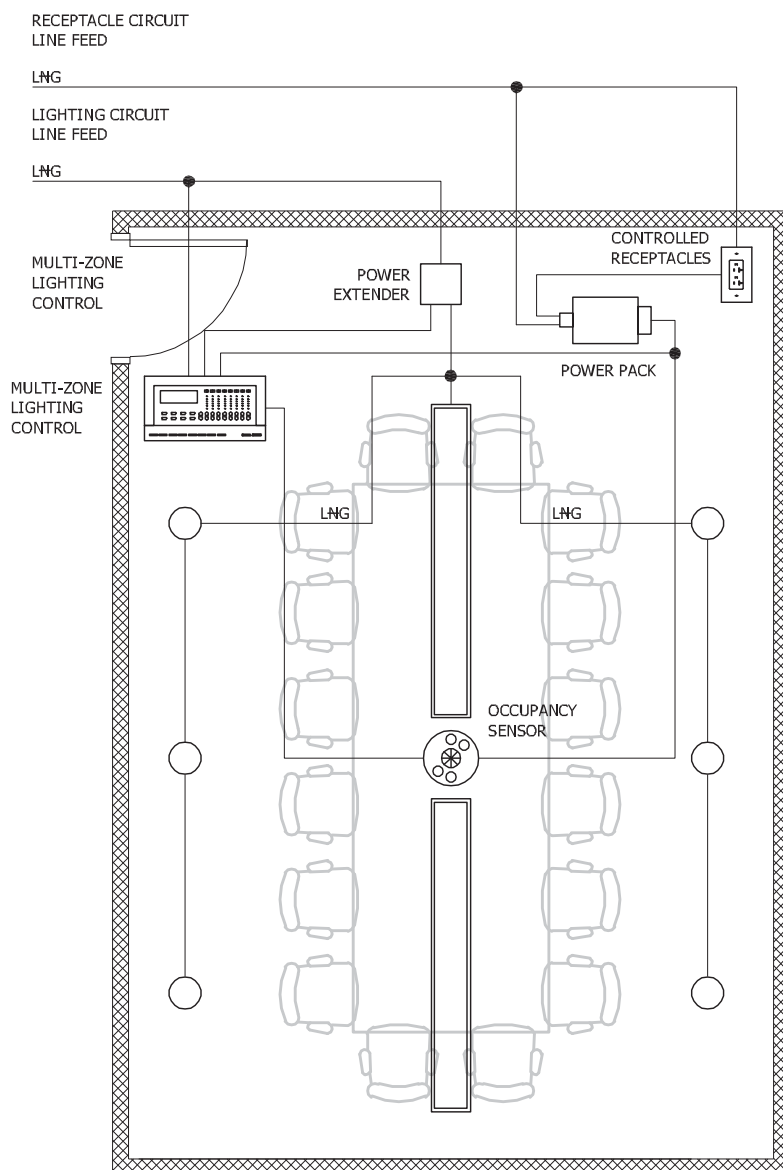
Integrated Room Control (IRC)

- Combines occupancy sensing, daylight harvesting, 0-10V dimming, partial ON, partial OFF, and demand response capabilities in a stand-alone package
- Kitted with factory configured sensor, photocell, and 4-button switch
- Autocal™ automatic photocell calibration and Ladderless Commissioning™
- Easy automatic closed or open loop multi-zone daylight harvesting control design
- Auto 100 hour burn-in



Conference Room Control Solution

featuring Dimensions® 4000 Lighting Control System








Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
 - Power Reduction Controls
- Section 130.5(d)
 - Receptacle Control/ Plug Load Control

Notes:

- Demand response required in all buildings larger than 10,000SF
- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	Dimensions D4206 Multi-Zone Architectural Lighting Control System D4206-1LW	1
	PE300 Power Extender PE300-D0W	2
	Multi-Technology Ceiling Mount Occupancy Sensor OSCxx-M0W	1
	OPP20 Super Duty Power Pack OPP20-0D1	1
	Controlled Receptacle, Marked XXXXX-XXX	X

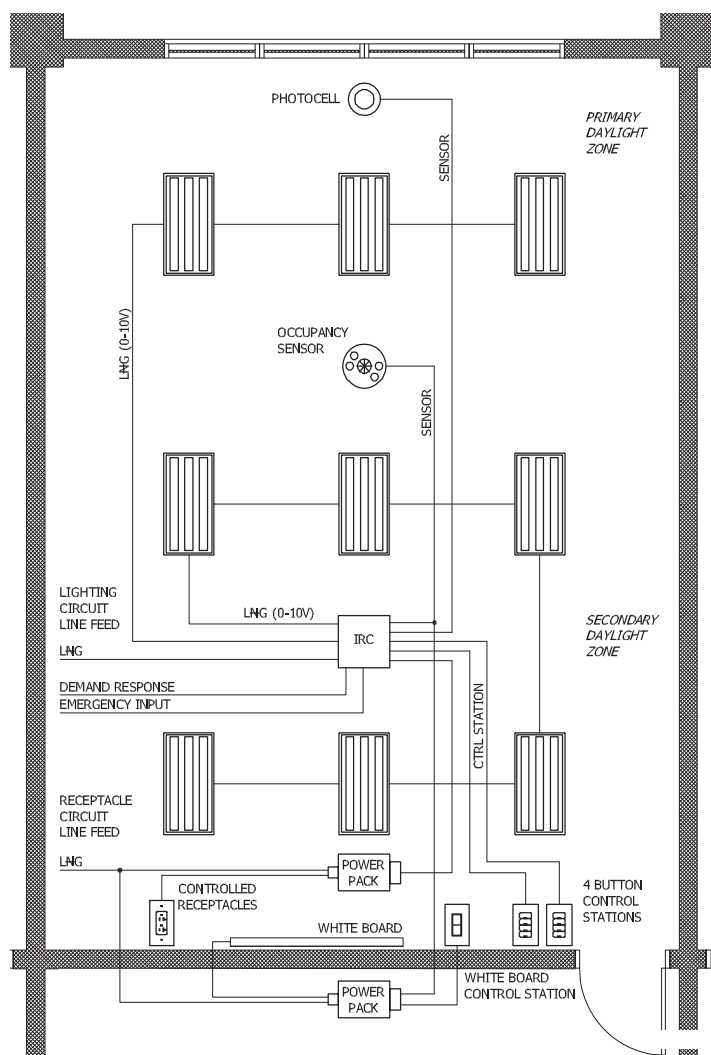
Featured Leviton Title 24 Solution

Dimensions® 4000 Architectural Lighting Control System

- Offers both stand-alone and integrated room dimming and control
- LED compatible with power extender
- Complete multi-event scheduler and integrated astronomical time clock
- Interfaces with HVAC, emergency, time clock, and load shed auxiliary systems



Classroom Control Solution featuring Integrated Room Control (IRC)



Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
 - Task Tuning
 - Partial-ON/OFF
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
 - Power Reduction Controls
- Section 130.5(d)
 - Receptacle Control/
 - Plug Load Control

Notes:

- Demand response required in all buildings larger than 10,000SF
- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	IRC Kit for 2 Zones, 2 Relays - includes IRC, sensor, photocell, and control station RCD20-102		1
		IRC for 2 Zones, 2 Relays MZD20-102	
		Multi-Tech Ceiling Mount Occupancy Sensor, 1000SF OSC10-M0W	
		Photocell, Indoor ODCOP-00W	
		Lighting Control Station RLVSW-4LW	
	Lighting Control Station RLVSW-4LW		1
	Decora Rocker 56081-0xx		1
	OPP20 Super Duty Power Pack OPP20-OD1		2
	Controlled Receptacle, Marked XXXXX-XXX		x

Featured Leviton Title 24 Solution

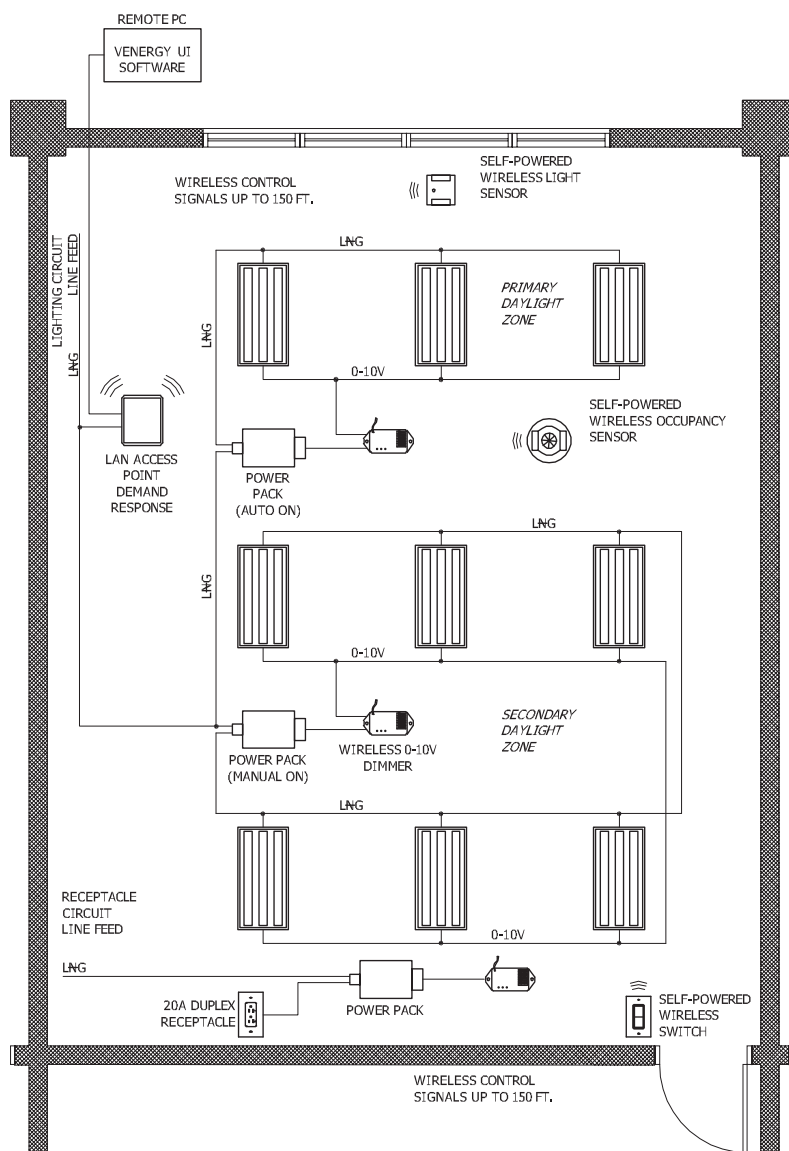
Integrated Room Control (IRC)

- Combines occupancy sensing, daylight harvesting, 0-10V dimming, partial ON, partial OFF, and demand response capabilities in a stand-alone package
- Kitted with factory configured sensor, photocell, and 4-button switch
- Autocal™ automatic photocell calibration and Ladderless Commissioning™
- Easy automatic closed or open loop multi-zone daylight harvesting control design
- Auto 100 hour burn-in



Classroom Control Solution

featuring LevNet RF™ Energy Harvesting Wireless Solutions



Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
- Section 130.5(d)
 - Receptacle Control/ Plug Load Control

Notes:

- Demand response required in all buildings larger than 10,000SF
- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	LevNet RF Self-Powered PIR Occupancy Sensor WSCxx-IRW	1
	LevNet RF Self-Powered Light Sensor WSCPC-00W	1
	LevNet RF 0-10V Dimmer WSD01-010	3
	LevNet RF Self-Powered Wall Switch WSS0S-D0W	1
	OPP20 Super Duty Power Pack OPP20-0D1	3
	Controlled Receptacle, Marked XXXXX-XXX	x
	LevNet RF LAN Access Point & Venergy UI Software WSAP0-TIP	1

Featured Leviton Title 24 Solution

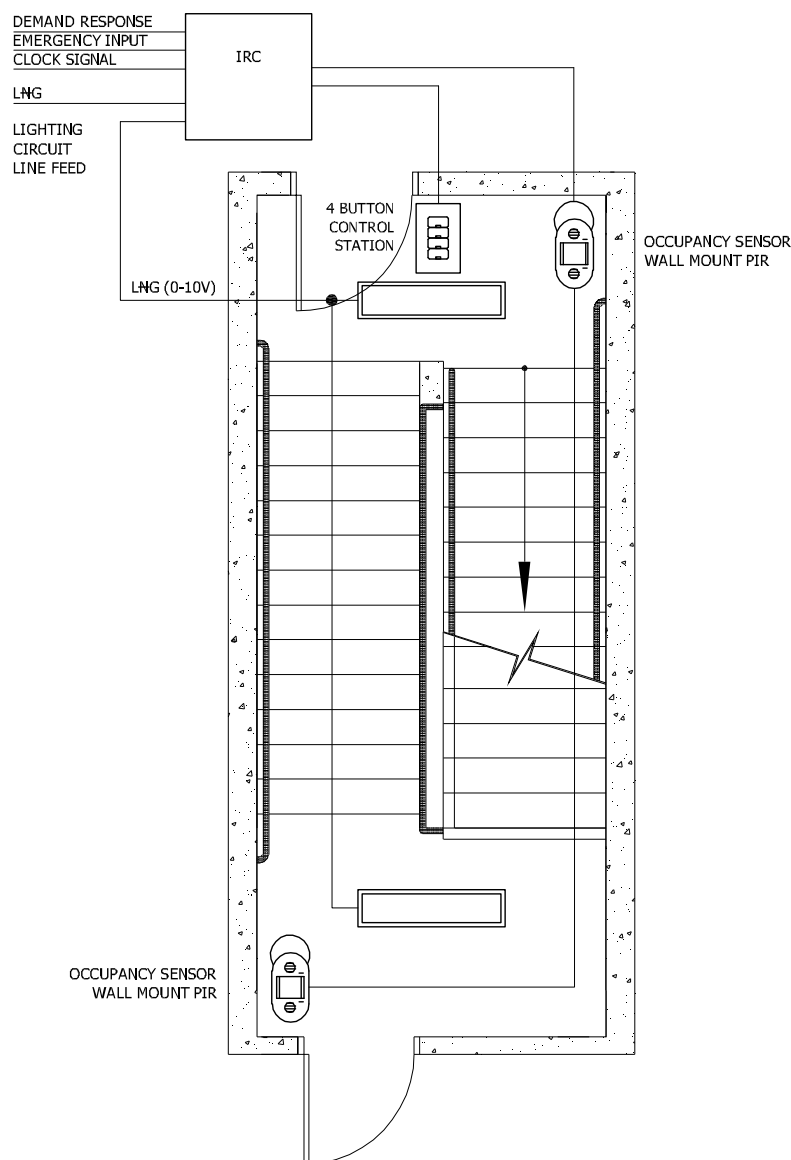
LevNet RF™ Energy Harvesting Self-Powered Wireless Solutions

- No wires to run and no batteries required - install in 1/4th the time—eliminating time and expense of control wiring
- Broad range of switches and control modules to meet virtually any control need including a Receptacle and engraved cover plate to meet plug load control code requirements
- Enables rapid retrofit with minimal impact



Stairwell Control Solution

featuring Integrated Room Control (IRC)






Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Partial-ON/OFF
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control

Notes:

- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	IRC for 2 Zones, 2 Relays MZD20-102	1
	PIR Wall/Corner Mount Occupancy Sensor, Wide View OSWWW-10W	2
	Lighting Control Station RLVSW-4LW	1

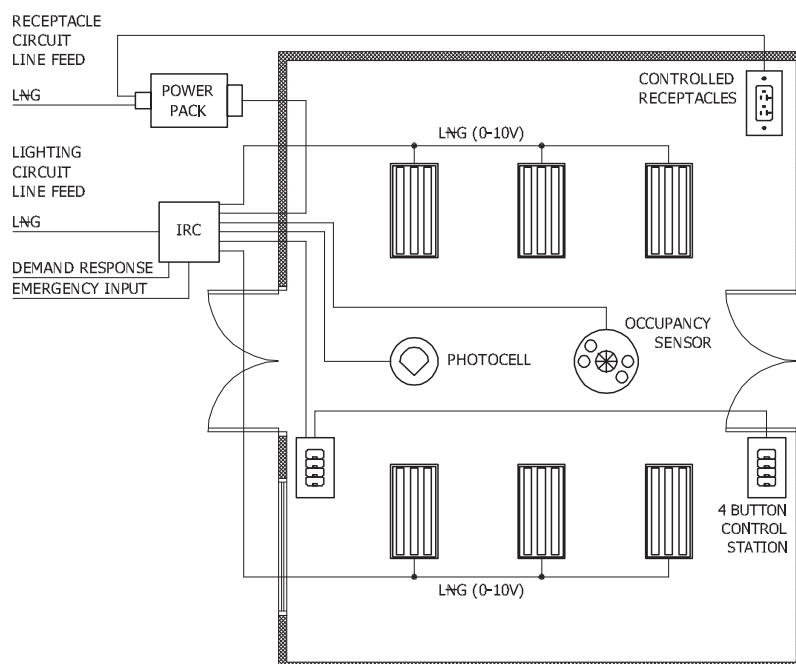
Featured Leviton Title 24 Solution

Integrated Room Control (IRC)

- Combines occupancy sensing, daylight harvesting, 0-10V dimming, partial ON, partial OFF, and demand response capabilities in a stand-alone package
- Kitted with factory configured sensor, photocell, and 4-button switch
- Autocal™ automatic photocell calibration and Ladderless Commissioning™
- Easy automatic closed or open loop multi-zone daylight harvesting control design
- Auto 100 hour burn-in



Common Area Control Solution featuring Integrated Room Control (IRC)



Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
 - Task Tuning
 - Partial-ON/OFF
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
- Power Reduction Controls
- Section 130.5(d)
 - Receptacle Control/Plug Load Control

Notes:

- Demand response required in all buildings larger than 10,000SF
- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	IRC Kit for 2 Zones, 2 Relays - includes IRC, sensor, photocell, and control station RCD20-102	1
	IRC for 2 Zones, 2 Relays MZD20-102	
	Multi-Tech Ceiling Mount Occupancy Sensor, 1000SF OSC10-M0W	
	Photocell, Indoor ODC0P-00W	
	Lighting Control Station RLVS-4LW	
	Lighting Control Station RLVS-4LW	1
	OPP20 Super Duty Power Pack OPP20-0D1	1
	Controlled Receptacle, Marked XXXXX-XXX	X

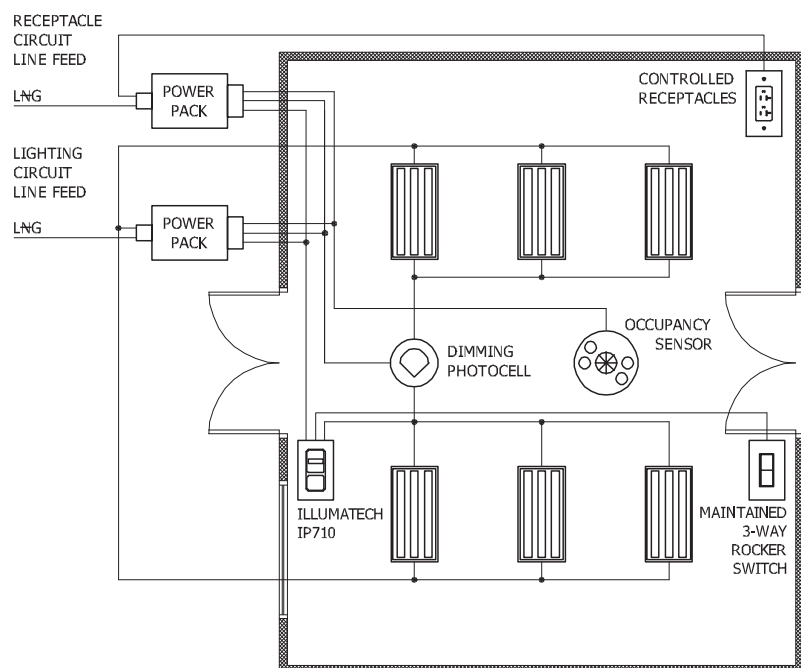
Featured Leviton Title 24 Solution

Integrated Room Control (IRC)

- Combines occupancy sensing, daylight harvesting, 0-10V dimming, partial ON, partial OFF, and demand response capabilities in a stand-alone package
- Kitted with factory configured sensor, photocell, and 4-button switch
- Autocal™ automatic photocell calibration and Ladderless Commissioning™
- Easy automatic closed or open loop multi-zone daylight harvesting control design
- Auto 100 hour burn-in



Common Area Control Solution featuring 1-10V Dimming Photocell





Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Dimming
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.5(d)
 - Receptacle Control/ Plug Load Control

Notes:

- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	Photocell, 1-10V Dimming ODC0P-D0W	1
	Multi-Tech Ceiling Mount Occupancy Sensor OSCxx-M0W	1
	Illuminate Dimmer IP710-xxx	1
	Decora Rocker, 3-way 05633-xxx	1
	OPP20 Super Duty Power Pack OPP20-0D1	2
	Controlled Receptacle, Marked XXXXX-XXX	x

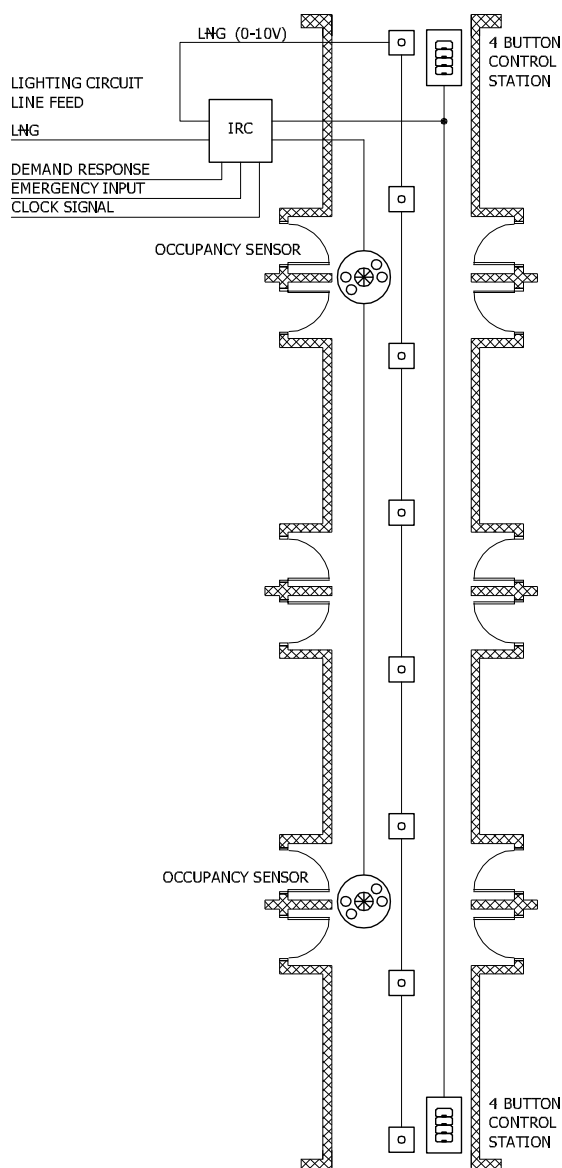
Featured Leviton Title 24 Solution

1-10V Dimming Photocell

- Ideal for open and closed loop daylight harvesting applications
- Autocal™ automatic photocell calibration



Hallway Control Solution featuring Integrated Room Control (IRC)






Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
- Section 130.1(b)
 - Multi-Level Controls
 - Partial-ON/OFF
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(e)
 - Demand Response
 - Power Reduction Controls

Notes:

- Demand response required in all buildings larger than 10,000SF
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	IRC for 2 Zones, 2 Relays MZD20-102	1
	PIR Ceiling Mount Occupancy Sensor OSCxx-10W	2
	Lighting Control Station RLVS-4LW	2

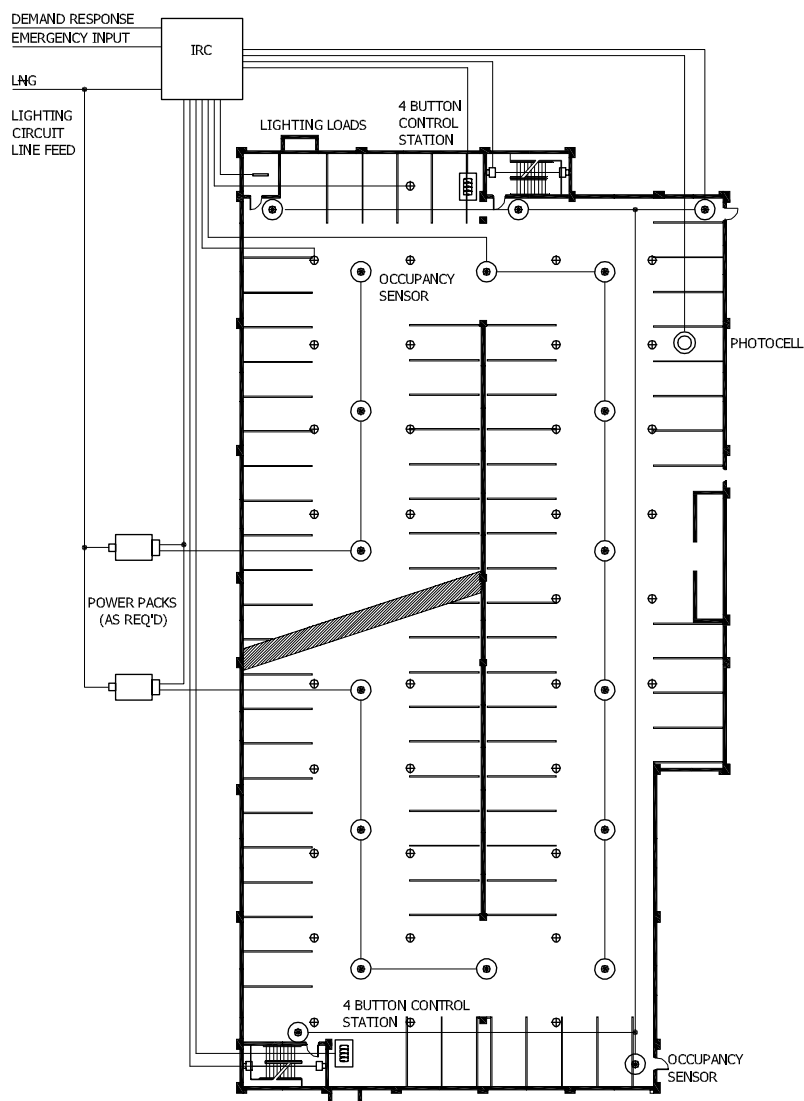
Featured Leviton Title 24 Solution

Integrated Room Control (IRC)

- Combines occupancy sensing, daylight harvesting, 0-10V dimming, partial ON, partial OFF, and demand response capabilities in a stand-alone package
- Kitted with factory configured sensor, photocell, and 4-button switch
- Autocal™ automatic photocell calibration and Ladderless Commissioning™
- Easy automatic closed or open loop multi-zone daylight harvesting control design
- Auto 100 hour burn-in



Parking Garage Control Solution featuring Integrated Room Control (IRC)







Meets the Following Title 24 Requirements

- Section 130.1(b)
 - Multi-Level Controls
 - Partial-ON/OFF
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
 - Power Reduction Controls

Notes:

- Demand response required in all buildings larger than 10,000SF
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	IRC for 2 Zones, 2 Relays MZD20-102	1
	PIR Ceiling Mount Occupancy Sensor OSCxx-10W	x
	Photocell, Outdoor PCOUT-000	x
	Lighting Control Station RLVSW-4LW	2

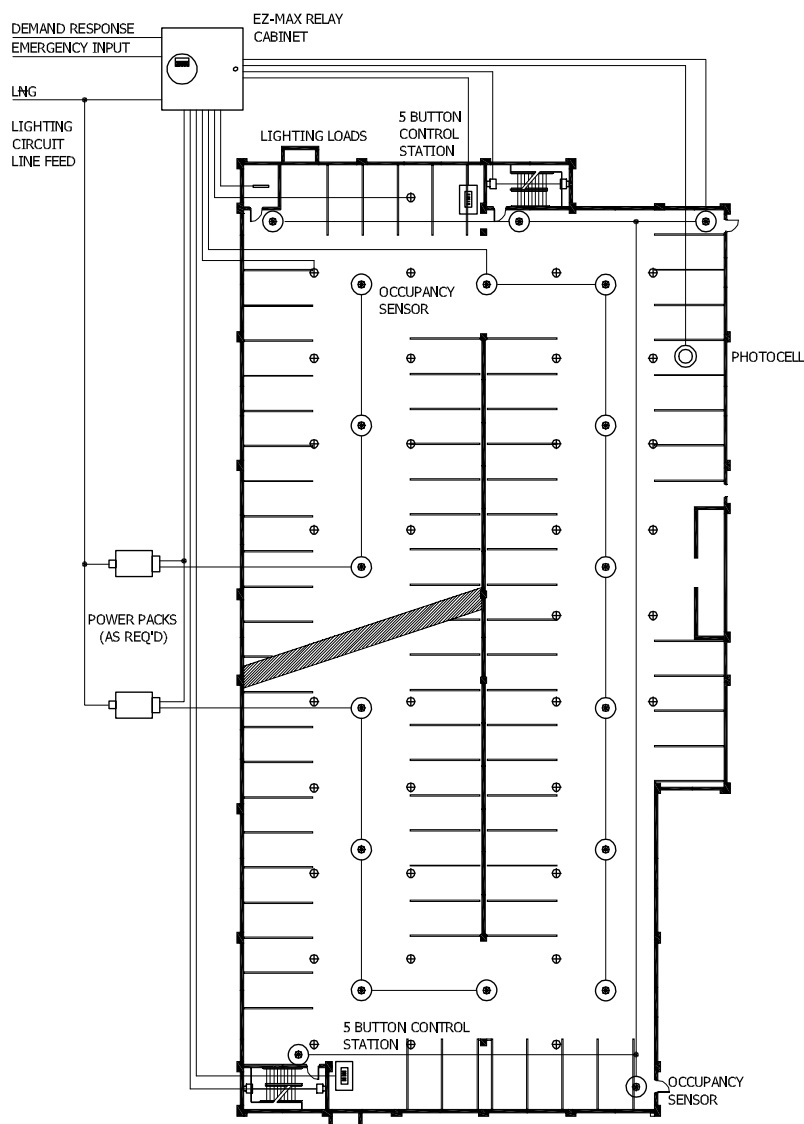
Featured Leviton Title 24 Solution

Integrated Room Control (IRC)

- Combines occupancy sensing, daylight harvesting, 0-10V dimming, partial ON, partial OFF, and demand response capabilities in a stand-alone package
- Kitted with factory configured sensor, photocell, and 4-button switch
- Autocal™ automatic photocell calibration and Ladderless Commissioning™
- Easy automatic closed or open loop multi-zone daylight harvesting control design
- Auto 100 hour burn-in



Parking Garage Control Solution featuring EZ-MAX® Plus Stand-Alone Relay Control System







Meets the Following Title 24 Requirements

- Section 130.1(b)
 - Multi-Level Controls
 - Partial-ON/OFF
- Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand Response
 - Power Reduction Controls

Notes:

- Demand response required in all buildings larger than 10,000SF
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits
- Solution features bi-level HID lighting

List of Equipment

	EZ-MAX Plus Stand-Alone Relay System R08BD-L08	1
	PIR Ceiling Mount Occupancy Sensor OSCxx-IOW	x
	Photocell, Outdoor PCOUT-000	x
	Low Voltage Switch, 5-Button 00LVS-05W	2

Featured Leviton Title 24 Solution

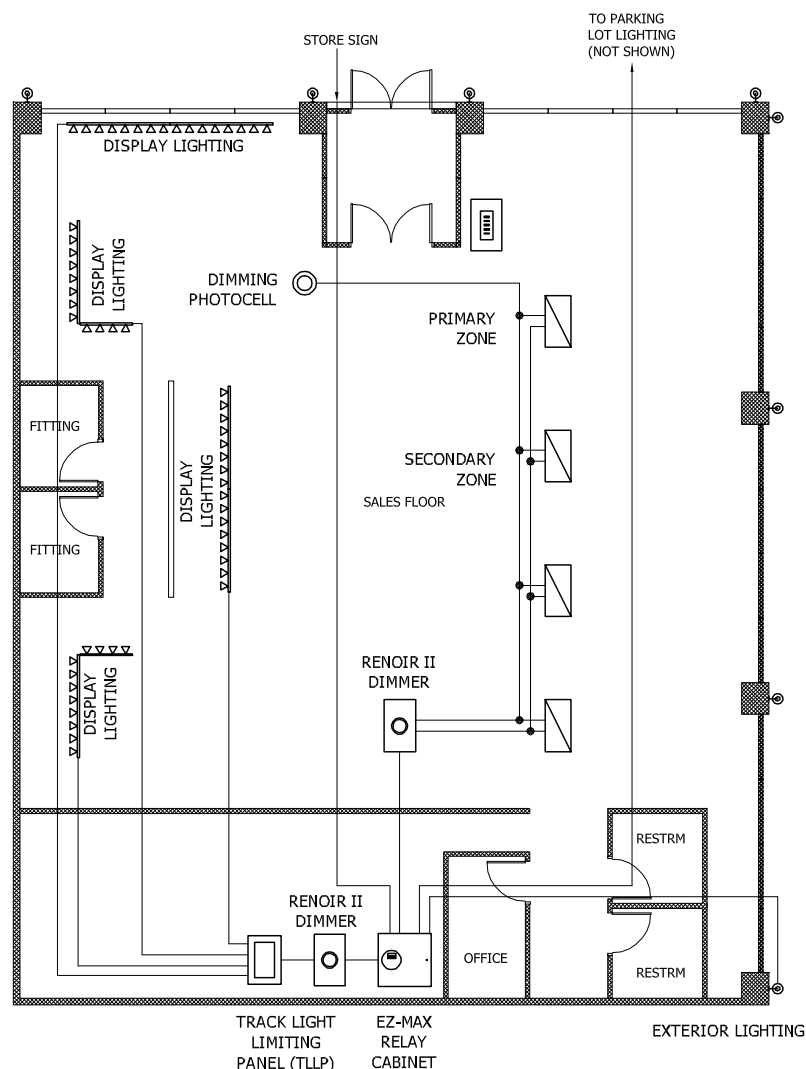
EZ-MAX® Plus Stand-Alone Relay Control System

- Centralized building lighting control and daylight harvesting in a contractor-friendly, quick to install, simple to configure compact enclosure
- Low voltage inputs allow connection of photocells, occupancy sensors, low-voltage switches, and digital switches for a comprehensive yet easily installed energy management solution
- Built-in astronomical time clock and scheduler
- Auto-detection and auto-assign of installed network switches



Retail Space Control Solution

featuring EZ-MAX® Plus Stand-Alone Relay Control System








Meets the Following Title 24 Requirements

- Section 130.1(a)
 - Area Controls
 - Manual ON/OFF
 - Section 130.1(b)
 - Multi-Level Controls
 - Dimming
 - Section 130.1(c)
 - Shut-Off Requirements
 - Occupancy Control
 - Section 130.1(d)
 - Daylighting
 - Section 130.1(e)
 - Demand Response
- Power Reduction Controls

Notes:

- Demand response required in all buildings larger than 10,000SF
- At least one controlled receptacle must be installed within 6 ft. of each uncontrolled receptacle or a split duplex can be used
- Add VerifEye Submetering Solutions to meet Section 130.5(a) - Service Metering, Disaggregation of Electrical Circuits

List of Equipment

	EZ-MAX Plus Stand-Alone Relay System R24BD-L24	1
	Track Light Limiting Panel (TLLP) Gxxxx-1xx	1
	Renoir II Dimmer AWSMT-7xx	2
	Photocell, Indoor PCIND-000	1
	Low Voltage Switch, 5-Button 00LVS-05W	2

Featured Leviton Title 24 Solution

EZ-MAX® Plus Stand-Alone Relay Control System

- Centralized building lighting control and daylight harvesting in a contractor-friendly, quick to install, simple to configure compact enclosure
- Low voltage inputs allow connection of photocells, occupancy sensors, low-voltage switches, and digital switches for a comprehensive yet easily installed energy management solution
- Built-in astronomical time clock and scheduler
- Auto-detection and auto-assign of installed network switches



Leviton Solutions for Title 24 Code Compliance

Leviton Solutions	Partial List of Title 24 2013 Requirements												
	Area Control	Egress Lighting	Emergency Lighting (UL924)	Multi-Level Lighting Controls	Automatic Shut-Off	Display / Retail Lighting	Daylighting	Demand Response	Exterior Light Control	Sign Lighting Controls	HVAC Occupancy Controls	Receptacle Control (Plug Load Control)	Energy Metering
Residential													
Dimmers	X	-	Xd	X	-	Xb	-	-	-	-	-	-	-
Vacancy Sensors	-	X	Xd	X	X	-	-	-	-	-	X	X	-
Occupancy Sensors	X	X	Xd	X	X	-	-	-	-	-	X	X	-
Humidity Sensors	-	-	-	-	X	-	-	-	-	-	X	-	-
Programmable Timer Switch	X	-	-	-	X	-	-	-	X	-	-	-	-
Non-Residential													
Vacancy Sensors	-	X	Xd	X	X	-	-	-	-	-	X	X	-
Occupancy Sensors	X	X	Xd	X	X	-	-	-	-	-	X	X	-
Dimmers	X	-	Xd	X	-	Xb	-	-	-	-	-	-	-
Dimensions® 4000 Lighting Controls	X	-	Xd	X	Xa	-	-	X	X	X	-	-	-
Dimensions® 8000 Lighting Controls	X	-	Xd	X	Xa	-	-	X	X	X	-	-	-
a-2000® Dimming Cabinets	X	X	Xd	X	Xa	Xb	-	X	X	X	-	X	-
LevNet RF™ Energy Harvesting Wireless Controls	X	Xe	-	Xe	Xe	-	Xe	-	X	X	X	Xe	-
Integrated Room Control (IRC)	X	Xb	Xd	X	Xa	X	Xb	X	X	X	X	Xb	-
EZ-MAX® Plus Stand-Alone Relay System	X	Xb	Xd	X	Xa	Xb	Xc	-	X	X	X	Xb	-
GreenMAX® Relay Control Systems	X	Xb	Xd	X	Xa	Xb	Xb	X	X	X	X	Xb	-
Track Light Limiting Panel (TLLP)	-	-	-	-	-	X	-	-	-	-	-	-	-
SectorFlex	X	Xb	Xd	X	Xa	Xb	Xb	X	X	X	X	Xb	-
Sector® Distributed Lighting Control	X	Xb	Xd	X	Xa	Xb	Xb	X	X	X	X	Xb	-
VerifEye™ Submetering Solutions	-	-	-	-	-	-	-	X	-	-	-	-	X

X = Solutions help spaces comply with the code requirement when used appropriately

Xa = Use with Leviton occupancy sensor

Xb = Use with Leviton daylight sensor

Xc = Use with Leviton daylight sensor (switched dimming only)

Xd = Use with Leviton Emergency luminaire control (UL924)

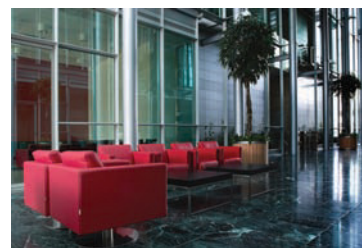
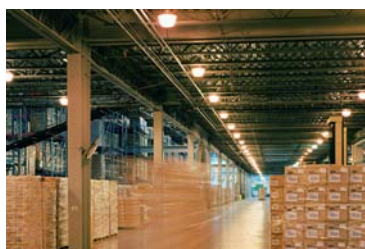
Xe = Use with Leviton LevNet RF Occupancy Sensor and/or Daylight Sensor

Leviton Solutions for Demand Response Capabilities

Leviton Solutions	Interface Method
Integrated Room Control (IRC)*	Interface is through contact closure
GreenMAX*	Interface is through contact closure
Sector*	Interface is through contact closure.
Dimensions D4200 controls	Use KCLCM to provide contact closure type interface
Dimensions D8000 controls	Use KCLCM to provide contact closure type interface
a-2000 **	Demand response interface would be dependent on the controls used
Other Dimmer Cabinets **	Demand response interface would be dependent on the controls used

*Leviton solution requires the device that would receive the Demand Response Signal from the utility to be supplied by other. The demand response interface device must have the capability to provide a contact closure or control signal to a Class C relay that can be used to provide contact closure to the Leviton lighting control system.

** Leviton solutions might require the device that would receive the Demand Response Signal from the utility to be supplied by other. The demand response interface device must have the capability to provide a contact closure or control signal to a Class C relay that can be used to provide contact closure to the Leviton lighting control system.



Leviton Residential Solutions for Title 24 Code Compliance

Universal Dimming Control

- Designed to optimize performance with all classes of lamps—dimmable LED, dimmable CFL, and incandescent
- Smooth operation for precise dimming, low-level starting, and flicker-free operation



Universal Sensing Control

- Manual-ON or Auto-ON options for vacancy and occupancy sensors
- Universal dimming sensor
- Humidity sensor and fan control detects excess humidity in a room and automatically activates the ventilation fan to reduce excess condensation



Leviton Non-Residential Solutions for Title 24 Code Compliance

Sensing Control

- Broadest range of sensors for any application
- Provolt™ integrates occupancy sensing, daylight harvesting, and manual-ON/ auto-OFF override control in a single unit - no special control stations required
- Plug load control with OPP20 Super Duty Power Pack
- 24V AC/DC input for integration with HVAC/BAS systems
- Industry leading layout and application services



Renoir® II Commercial Architectural Wall Box Dimmers

- Universal voltage — 120-277V, 60Hz
- Supports virtually all common load types without power extenders
- Multi-location dimming — up to 5-way dimming
- Low voltage dimming control for LEDs
- Patented Super-Silent Fan Control Technology (SST)



Sapphire™ Architectural Lighting Controls

- Modern touchscreen user interface integrates with multiple Leviton lighting control systems
- Online and offline configuration
- Supports multiple interfaces - LumaCAN®, Ethernet, A/V, HVAC, wireless (LevNet RF), and analog systems
- Software update through USB interface behind front panel



Dimensions® D4000 and D8000

- D4000 controls offer both stand-alone and integrated room dimming and control
- D8000 systems provide distributed control of up to one thousand channels plus
- LED compatible with power extender
- Complete multi-event scheduler and integrated astronomical time clock
- Interfaces with HVAC, emergency, time clock, and load shed auxiliary systems



a-2000® Dimming Cabinets

- Single dimming source for a broad range of loads
- Plug-in dimmer modules for easy maintenance
- Rugged dual-SCR dimmer circuitry for superior dimming performance and reliability
- Contractor-friendly design with a large wiring space for easy installation
- Communication inputs include DMX512, Luma-Net III, RS-485, full bright, emergency, and +0-10VDC analog for versatility



LevNet RF™ Energy Harvesting Wireless Solutions

- No wires to run and no batteries required - install in 1/4th the time—eliminating time and expense of control wiring
- Broad range of switches and control modules to meet virtually any control need
- Enables rapid retrofit with minimal impact



Leviton Non-Residential Solutions for Title 24 Code Compliance

Integrated Room Control (IRC)

- Combines occupancy sensing, daylight harvesting, 0-10V dimming, partial ON, partial OFF, and demand response capabilities in a stand-alone package
- Kitted with factory configured sensor, photocell, and 4-button switch
- Autocal™ automatic photocell calibration and Ladderless Commissioning™
- Easy automatic closed or open loop multi-zone daylight harvesting control
- Auto 100 hour burn-in



EZ-MAX® Plus Stand-Alone Relay System

- Centralized building lighting control and daylight harvesting in a contractor-friendly, quick to install, simple to configure compact enclosure
- Low voltage inputs allow connection of photocells, occupancy sensors, low-voltage switches, and digital switches for a comprehensive yet easily installed energy management solution
- Built-in astronomical time clock and scheduler
- Auto-detection and auto-assign of installed network switches



Track Light Limiting Panel (TLLP)

- Prevents overloaded circuits
- Provides tamper-proof current limiting protection for track lighting
- Sets a fixed power consumption limit for designer lighting installations by using the volt amperage rating of the breaker instead of watts per linear feet
- Factory configured to customer specifications - arrives ready to install
- Reduces installation costs
- No programming required



GreenMAX® Relay Control System

- Integrates common sensing, dimming, switching, and advanced daylight harvesting applications from the same cabinet
- BACnet IP native in each cabinet for seamless BMS integration
- Industry leading 25,000A Short Circuit Current Rating (SCCR) at 277V
- Integrated 0-10V dimming/switching relay
- Built-in override switch allows manual control of each load individually
- Programming is done with preset "Behaviors" via the industry-exclusive Handheld Display Unit (HDU)



Sector® Distributed Lighting Control System

- Topology-free, polarity-free distributed control
- Combines all lighting management functions into a single system with the fewest connection points, simplest installation, greatest flexibility, and simple specification
- High performance Sector ballasts offer 1% dimming performance
- All components connect directly to the topology free 2-wire bus, not the ballast
- Relay controllers allow zone dimming and control for cost-effective system design



VerifEye™ Submetering Solutions

- Comprehensive line of submeters, communication products, and software solutions
- Simple installation in new or existing facilities
- Measurement & Verification (M&V) capabilities with data collection and storage
- Ideal for real-time energy monitoring and tenant billing
- Integrate with Building Management Systems for energy efficiency and savings
- Meets separation of load requirements with the ability to measure various loads





Service and Support During Every Step of the Process

There is much more to making lighting more energy efficient than just installing a simple device or two. System design, product selection, installation and service: it has all got to come together. That's where Leviton service and support options come in. We'll help you design your system and make the right product selections so you can create a lighting control system that does exactly what you want it to do while saving electricity, meeting codes and standards, and even garnering rebates.

It all starts with the Leviton sales representative. Our lighting control specialists are here to support you every step of the way. They can perform on-site facility audits and suggest specific products and strategies for improving lighting energy efficiency.

Exclusive Wealth of Resources

- **Exclusive Training** - contact your local Leviton representative to have a Title 24 expert provide training in person or online exclusively for your team
- **Code Assist Services** - have a team of experts help with designing your Title 24 compliant lighting control and energy management solutions, product selection assistance, data sheets, Bill of Materials, drawings and diagrams - email CodeAssist@leviton.com or go to portal.leviton.com
- **Dollars & Sensors® Online Energy Audit Tool** - makes energy audits easier than ever - use your smart device (Android, Apple, Windows or Blackberry) to enter audit information and your desktop to generate ROI reports, analyses, Bill of Materials, and a submittal package - go to www.leviton.com/dollarsandsensors
- **Occupancy sensor layout services** - have a team of experts create occupancy sensor layouts directly on your CAD drawings, complete with a List of Equipment at no cost - go to portal.leviton.com
- **LightLogger® Program** - get an accurate estimate of your energy-savings potential with this exclusive payback analysis tool - go to www.leviton.com/logger
- **ez-Learn™** - get Leviton smart from the comfort of your home or office with this exclusive 24/7 online training - go to www.leviton.com/ezlearn
- **ASAP Lighting Design software** - point-and-click software allows you to quickly and simply design, specify and enter orders - go to www.leviton.com/asap
- **Find more exclusive no cost design tools** at www.leviton.com/lesdesign
- **Lighting control specialists** at your disposal
- **Field service engineers** for top-level support
- **Factory commissioning service**
- **Dedicated technical support** via phone at 800 959-6004

Contact your local Leviton Lighting Control Specialist for Title 24 compliant design assistance.



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