LEVITON®

Title 24 Demand Response
Single Source for Solutions

As lighting makes up nearly 30 percent of our commercial electricity use, new codes and standards are being introduced on the local municipal, state and national levels to conserve energy and ensure a more efficient future.

What is Demand Response?
The goal of the demand response strategy is to reduce energy usage during periods of high power prices, or when the reliability of the power grid is threatened.

- Automatically reduces lighting loads based on a demand response event signal from BMS or ADR source
- Leviton Solutions include Provolt Room Controller (PRC), Integrated Room Control (IRC), GreenMAX® Relay Control Systems and Sector® Distributed Lighting Control
- Incorporate VerifEye™ Submetering Solutions to accurately track and monitor peak usage times to monitor peak usage and demonstrate the facility's compliance with demand response events
- For more information and resources, visit www.leviton.com/demandresponse

California Title 24 2016 Section 130.1(e)
Demand Responsive Controls—
Lighting and Automation

In buildings larger than 10,000 square feet, total lighting power shall be capable of being automatically reduced by a demand response signal by at least 15%.

- Lighting reduction shall be uniform.
- Non-habitable spaces do not count toward this requirement
- Spaces with less than 0.5 watts per square feet shall not count toward total power

Demand response controls and equipment shall be capable of receiving and automatically responding to at least one standards-based messaging protocol.

Design Assistance and Support

Not only does Leviton provide demand response solutions from a single source, we offer our customers an unparalleled level of resources to make the project planning process easier.

Title 24 App for Apple and Android devices brings code compliance to your fingertips with layouts, code articles and more! Leviton.com/apps

Title 24 Design Guide with code requirements and applications available for download at Leviton.com

Dollars & Sensors allows you to perform a full energy audit from the palm of your hand. Visit leviton.com/dollarsandsensors to download the free app for iPhone, Android or BlackBerry and generate ROI reports, analyses, Bill of Materials and submittal packages from your desktop

Occupancy Sensor Layout Service provides expert-created occupancy sensor layouts directly on your CAD drawings with a List of Equipment at portal.leviton.com

ez-Learn™ is online training from the comfort of your home or office, available 24/7 at leviton.com/ezlearn
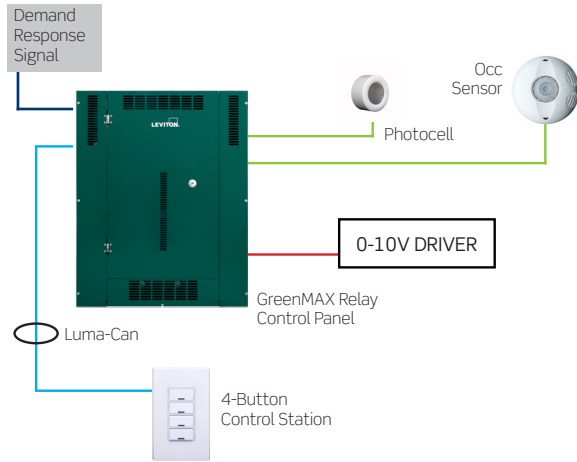
ASAP Lighting Design Software is point-and-click software that allows you to quickly and simply design, specify and enter orders at leviton.com/asap

Dedicated technical support at 800-959-6004.

Demand Response with Centralized Control
GreenMAX Relay Control Panels

Demand Response Signal

Occ Sensor

Photocell

0-10V DRIVER

GreenMAX Relay Control Panel

Luma-Can

4-Button Control Station

- Can be used to comply with 2016 Title 24, Part 6 demand response and accessible area controls
- Allows for three levels of demand response—ON/OFF switching, daylight harvesting and dimming—for flexible options to meet evolving code requirements
- Provides maximum protection with the industry leading Short Circuit Current Rating (SCCR) of 25,000A at 277VAC
- Pre-programmed lighting control "Behaviors" allow facilities to plan schedules according to time-of-day, business hours, changing seasons and other factors
- Supports native network protocols of BACnet/IP, Ethernet and LumaCAN to simplify configuration and ensure start simplicity
- Supports 0-10V dimming

FOR A SIMPLER DEMAND RESPONSE SOLUTION:
- Use the Integrated Room Control (IRC) in the solution above in place of the GreenMAX Relay Control Panel for:
  - 2- and 3-zone applications
  - Executive offices
  - Classrooms
  - Small retail stores and restaurants

Demand Response Centralized Control Solution	
	GreenMAX Relay Control Panel R16TC-100
	GreenMAX Command Module RPM16-316
	GreenMAX Relay Insert Panel R1616-1DS
	GreenMAX Handheld Display Unit RHDU1-300
	4-Button Control Station RLVSW-4LW
	Ceiling Mount Multi-Technology Occupancy Sensor OSC20-RMW
	Photocell ODC0P-00W

Demand Response with Distributed Control
Sector Distributed Digital Control

- Can be used to comply with 2016 Title 24, Part 6 demand response and accessible area controls
- 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
- Supports 0-10V dimming

Demand Response Distributed Control Solution	
	Sector Bus Controller SBP00-00M
	Sector Low Voltage Interface SLIQD-000
	Sector Occupancy Sensor OSC20-MSW
	Sector Photocell ODC0P-0SW
	Sector Switch SDS00-15W
	Sector Relay SBCS0-L00
	Marked Controlled Receptacles and Labels 5362-S1W

Sector Photocell

Marked Controlled Receptacle

Sector Relay

Sector Occupancy Sensor

Demand Response Signal

Sector Low Voltage Interface

0-10V DRIVER

Sector Switch

Line In

Sector Bus Controller

SectorNet

LumaCan

Line In

Sector Bus Controller

SectorNet

Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation