



Leading the way
in Lighting Controls
and Energy
Management Solutions



THE FUTURE IS ON



“Now, in virtually every business, there is an opportunity to significantly reduce existing lighting costs by adopting newly developed energy management control systems.”



For most companies, the last time they reaped significant financial benefit from a change in their lighting systems was with an upgrade to more efficient lamps and electronic ballasts. But a lot has changed since then.

Now in virtually every business, there is an opportunity to significantly reduce existing lighting costs by adopting newly developed energy management control systems.

WHY ADOPT ENERGY MANAGEMENT CONTROLS NOW? IT'S THE CODE

Energy codes are now the law of the land. From the ASHRAE/IESNA 90.1 Energy Standard and IECC, to LEED, CEC Title 24 2008 and more, codes are underscoring the need for better energy-saving controls for lighting by either mandating compliance or encouraging it with tax incentives.

COMPETITIVE ADVANTAGE

Energy costs are rising faster than ever before, making the reduction of energy consumption by businesses an increasingly more powerful competitive advantage. With over 38% of a typical business's energy bill related to lighting, energy saving controls for lighting are now squarely at the center of any effort to reduce energy expenditures ■

OVER A CENTURY OF EXPERIENCE AND A REPUTATION TO BACK IT UP

Founded in 1906, Leviton Manufacturing Company began with a single electrical product – a pull-chain lamp holder. Today, Leviton offers over 26,000 innovative electrical, electronic and voice and data devices through its four business units and worldwide manufacturing facilities.



Leviton products are backed by superior technical service, quality assurance, engineering, research and development, testing and the highest manufacturing standards. This combination of expertise and personal commitment has earned Leviton a worldwide reputation for quality, service and reliability.

Leviton's industry-leading R&D has resulted in a legacy of product excellence with over 600 patents to date. Leviton's lines of high and low-voltage product offerings enjoy unmatched market penetration in the US with Leviton products found in 9 out of 10 buildings.

SETTING THE STANDARD FOR SERVICE AND SUPPORT

The true mark of leadership is customer satisfaction. Leviton's global support team places technical abilities at your disposal to help engineer the best solutions possible for any application.

- Professional in-house applications engineering layout services - unmatched submittal grade layout drawing and BOM packages at no cost.
- Widest distribution in the nation making Leviton products available through distributors that you are likely to already be doing business with.
- Wide spanning factory sales and support team.

“The ability to make quick product changeovers enables Leviton to operate at the cutting edge of responsiveness.”

- Centralized customer service department services your needs with quick turnaround and maximum efficiency.
- Factory field service technician network with complete commissioning and engineering check-out services.
- Exclusive no cost resources for design tools, continuing education, training and energy codes and standards.

VISION, TECHNOLOGY AND SOLUTIONS

Equipped with the latest CAD/CAM tools, direct model-making capability and industry-leading R&D and testing facilities, Leviton's design staff are able to quickly develop products for every

industrial and commercial grade wiring device application. The ability to make quick product changeovers enables Leviton to operate at the cutting edge of responsiveness.

WORLD-CLASS QUALITY

Backed by a longstanding tradition of quality and ISO 9001 certification, Leviton applies the highest quality standards to the development and manufacture of all its products.

The integration of technology-based process controls ensures consistent quality while providing significant efficiencies and reducing manufacturing costs - enabling Leviton to offer



its customers value as well as performance. In-house labs perform demanding tests to ensure that all products meet or exceed the most rigorous standards.

This gives Leviton the confidence to offer one of the strongest warranties in the industry - exclusive performance guarantees backed by a lifetime performance warranty and applications assurance on certified installations.

That's a statement of quality you'll find only from Leviton ■



LEVITON PRODUCTS LEVERAGE Energy-saving technologies

DIMMED LIGHTING

One of the easiest ways to reduce electricity consumption is via a combination of dimmers and task lighting. Not only do dimmed lights draw less electricity, they produce less heat - and that can reduce cooling costs, which can really add up in warmer climates. As a general rule: the more you dim, the more you save. Dimming also enables bulbs to last longer.

Dimming incandescent lights by:	Reduces energy consumption by:
10%	10%
25%	20%
50%	40%
75%	60%

Leviton dimming products include:

Box-mounted dimmers; scene dimming stations and controllers; and sophisticated multi-zone dimming systems that incorporate dimming and relay cabinets, architectural lighting, and more. These products can help buildings meet mandatory ASHRAE 90.1-2004 and CEC Title 24 2008 requirements.

OCCUPANCY DETECTION

Occupancy sensors provide automatic switching of lighting and building loads.

Not only does this ensure that lights go off when not needed, hands-free switching is extremely convenient because it takes the burden away from whoever is using the space. A new breed of devices, manual-on occupancy sensors, provides maximum savings by requiring user intervention and eliminating false-on triggers.

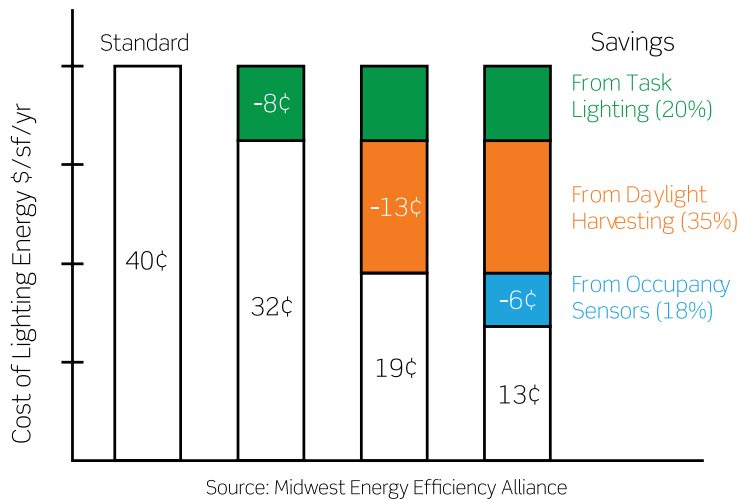
Actual savings from occupancy sensors vary greatly depending on usage patterns and occupant habits.

Leviton's occupancy sensor line includes commercial and residential, wide-view and high-bay, dual-relay and even outdoor models for a broad range of coverage areas and patterns.



“All our products can help buildings meet the following required mandatory codes and earn LEED certification: ASHRAE 90.1-2004, IECC-2006 and CEC Title 24 2008 requirements.”

DAYLIGHT HARVESTING



Daylight harvesting technology maintains a programmed level of light by precisely adjusting the output of a room's luminaires to compensate for ambient light levels, the most prevalent source being natural daylight.

A typical system uses photocells to measure the ambient light and then automatically dim or brighten to achieve a user-programmed level of light. An alternative to dimming is bi-level

or multi-level switching in which luminaires in different zones are switched on and off based on ambient light levels. By utilizing free light, daylight harvesting can reduce electricity bills as much as 6%.

Leviton offers photocells, occupancy sensors, relay cabinets, dimmers and dimming systems that can be integrated into daylight harvesting systems.

TIMED CONTROLS

Using timers to automate switching of lights and other loads is a sure-fire way to ensure that devices remain off for a set period of time. In the home, timer switches automate switching based on programmed or preset times of day (or on manual selection).

Whether it's to keep something from staying on too long, like with a hot tub, or to automate both on and off so that the load is on for a finite period of time, like with a pool filter, electronic timers save electricity.

Sophisticated relay systems provide advanced load scheduling based on chronological or astronomical time and are compatible with other lighting controls and sensors for a comprehensive approach that maximizes overall energy savings.

Leviton offers preset and programmable timer switches as well as relay systems that integrate with lighting and other building controls within commercial and industrial applications.

INTEGRATION WITH BUILDING CONTROLS

When lighting, security, HVAC and other building management systems are integrated into a single control system, optimal energy efficiency is one of a host of benefits. Integrated systems provide superior inter-operability as well as an essential function for companies participating in load shedding programs - and can garner points towards LEED certification ■

“Leviton energy management components are building blocks that can interact with other Leviton products and, many of them, with non-Leviton building controls.”

OUTSTANDING SELECTION

Leviton's team of electrical industry experts work together to maintain an outstanding selection of top-quality, easy-to-install products.

Whether you require a quick and easy solution to turn the lights off based on occupancy or custom-designed lighting control systems tailored to site-specific needs, Leviton has the product or system for your application.





LEFT | PIR Detection

“Levitor’s extended occupancy sensors’ range now integrates with Building Management System (BMS) interfaces.”

“Work smarter. Work easier. Levitor makes occupancy sensor retrofits and multi-location switching easy.”

01



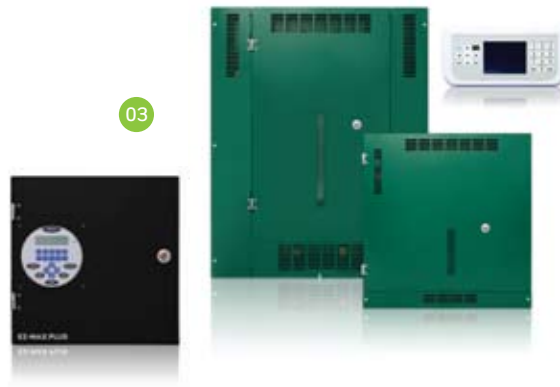
04



02



03



RIGHT | Multi-Detection



01 | LEVNET SELF-POWERED WIRELESS SOLUTIONS

Leviton combines occupancy sensing with wireless and self-powered technology for savings on energy, labor, material and time. It takes minutes to install, not hours, for quicker job turnaround times and lower labor costs. It's the ideal solution for retrofit projects that need occupancy sensors or multi-location switching.

Simply replace the existing wall switch with the Wall Switch Receiver, mount the Wireless Self-Powered Occupancy Sensor and installation is complete. With no wires to run, installation costs can be as much as 50% less than conventional hardwire systems.

The Wall Switch Receiver and Wireless Self-Powered Remote Switch can also be used for easy and convenient wireless multi-location switching.

- No new wiring required for installation eliminates wiring challenges and the perfect

- solution for convenient multi-location switching.
- Self-powered – no external power or batteries required – sensor utilizes a built-in solar cell and remote switch uses kinetic energy for reduced maintenance and material costs.

Work smarter. Work easier. Leviton makes occupancy sensor retrofits and multi-location switching easy.

02 | OCCUPANCY SENSORS

Occupancy sensors offer an economical and fast solution to maximize energy savings and comply with codes. By providing automatic switching of lighting and building loads, ensures that lights go off when not needed. Leviton offers an occupancy sensing solution for every application – wall switch, low voltage, high bay, cold storage, outdoor, wireless sensors and more.

“Leviton’s extended occupancy sensors’ range now integrates with Building Management Systems’ (BMS) interfaces.”

03 | RELAY CONTROL SYSTEMS

Leviton’s Relay Control Systems offer stand-alone and fully integrated building-wide solutions for spaces where centralized lighting control, programming and monitoring are required.

Control multiple loads automatically for energy management, security and outdoor lighting. EZ-MAX Plus relay lighting control panels combine the power and performance of the larger relay lighting control panels in compact and cost-effective 4/8-circuit and 16/24-circuit models. EZ-MAX Plus is the ideal solution for smaller, stand-alone applications that do not require the field configuration or advanced networking features of the larger panels.

GreenMAX is changing the industry standard for Relay Control Panels. A completely modular design offering a wide variety of relay options including integrated dimming. Robust and reliable with a 25,000A Short Circuit Current Rating (SCCR), GreenMAX has daylight harvesting and smart metering capabilities. Programming and monitoring GreenMAX is quickly and simply done via the portable Handheld Display Unit (HDU)

allowing onsite or remote access. The modular design allows total installation flexibility and labor savings. GreenMAX offers the best performance, reliability, flexibility and energy savings of any relay control available.

04 | ENTERTAINMENT LIGHTING CONTROL SYSTEMS

Leviton has transformed the way the world thinks about lighting controls. Before we introduced our first microprocessor-based controls, stage and display lighting was laborious and the technology stagnant. Now with revolutionary products from Leviton lighting is fluid and dynamic.

Our control systems are designed to unlock your vision and creativity, giving you the power to animate your lighting like never before. Leviton’s state-of-the art line includes control, dimming and lighting products to tackle the widest range of applications.

Whether your venue is a place to educate, entertain, broadcast or hold conventions, Leviton has proven lighting solutions.



LEFT | Ultrasonic Detection



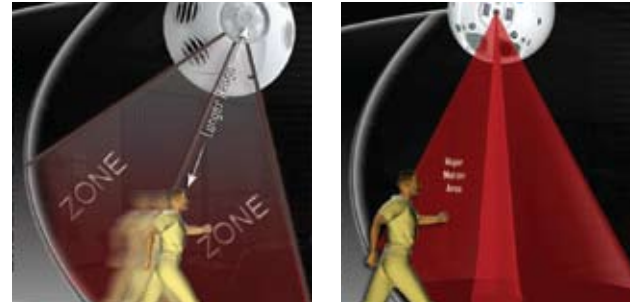
05 | DAYLIGHT HARVESTING SYSTEMS

Leviton's miniZ intelligent Daylight Harvesting System uses photocells to measure the ambient light and then automatically dims or brightens to achieve a user-programmed level of light. The miniZ also offers an alternative to dimming with bi-level or multi-level switching where luminaires in different zones are switched on and off based on ambient light levels.

By taking advantage of natural lighting, daylight harvesting can reduce electricity bills as much as 60%. In addition, miniZ controls occupancy sensors and provides manual switching control.

“The Sector family of products provides a scalable solution that offers maximum flexibility and coverage in any application.”

RIGHT | Minor and Major Detection



06 | ARCHITECTURAL LIGHTING CONTROLS

Offering a complete architectural and energy management solution for any application, Leviton is here to help you every step of the way with system design, product selection and service. Great aesthetics, energy conservation, and a lighting control system that does exactly what you want it to do - only Leviton integrates all your lighting needs into one cohesive system.

07 | INTELLIGENT BALLAST AND LIGHTING CONTROL SYSTEM

Occupancy sensing, daylight harvesting and flexible dimming lighting control in one convenient integrated system to easily save time, money and energy while complying with codes. This topology-free, polarity-free system allows the entire network to be installed using the same wiring for all components and accessories making it one of the easiest lighting control systems to install. All components are

on a single bus, with accessories connected to the network, not the ballast. Sector offers the ultimate flexibility in design, installation and configuration using a central drag and drop GUI interface. A patent-pending address system allows simple ballast identification to the lighting plan for rapid commissioning, recon-figuration and maintenance. For increased energy savings at a minimum cost, advanced Sector Ballasts are dimmable from 100% to 1% in 1% increments. For added user satisfaction, workspace lighting can even be controlled right from their desktop with an individual Personal Dimming Option (PDO).

The Sector family of products provides a scalable solution that offers maximum flexibility and coverage in any application. From a single room to a campus of buildings in retrofit or new construction projects, Sector makes your lighting control system easy to install, easy to design and easy to maintain ■





08 | METERING SOLUTIONS

As energy costs continue to rise, finding new ways to save is essential—and Leviton has an effective, affordable solution with submeters that measure and deliver data on energy use. Knowing exactly when and where energy is being used is a valuable tool that will help you better manage and conserve energy, to save money.

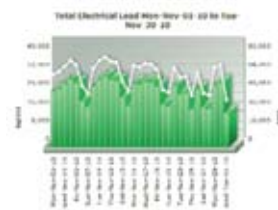
The process is simple and effective – if power is flowing through a circuit, Leviton can measure it. The submeter is installed on the facility side of the master meter, and captures accurate measurements of power consumption. Leviton submeters are easy to specify and install—for new construction or retrofitting—allowing everyone to take advantage of this money-saving technology.



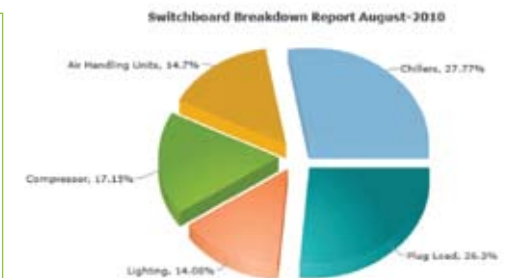
09 | ENERGY MANAGER MONITORING SOFTWARE

With a competitive global economy, soaring energy prices, increasing environmental issues and technology-based decision making, your profitability depends on the ability to analyze and control operating costs. Better energy management saves money and translates to an improved bottom line. Decision makers everywhere are turning to Leviton Energy Manager to get the information they need to make smart energy choices. An advanced web based platform that provides real time data for your entire enterprise, Leviton Energy Manager gives you the most sophisticated tools to drive energy efficiencies, reduce operating costs and create more sustainable, environmentally sound facilities. You can also get instant email alarm notifications on your mobile devices.

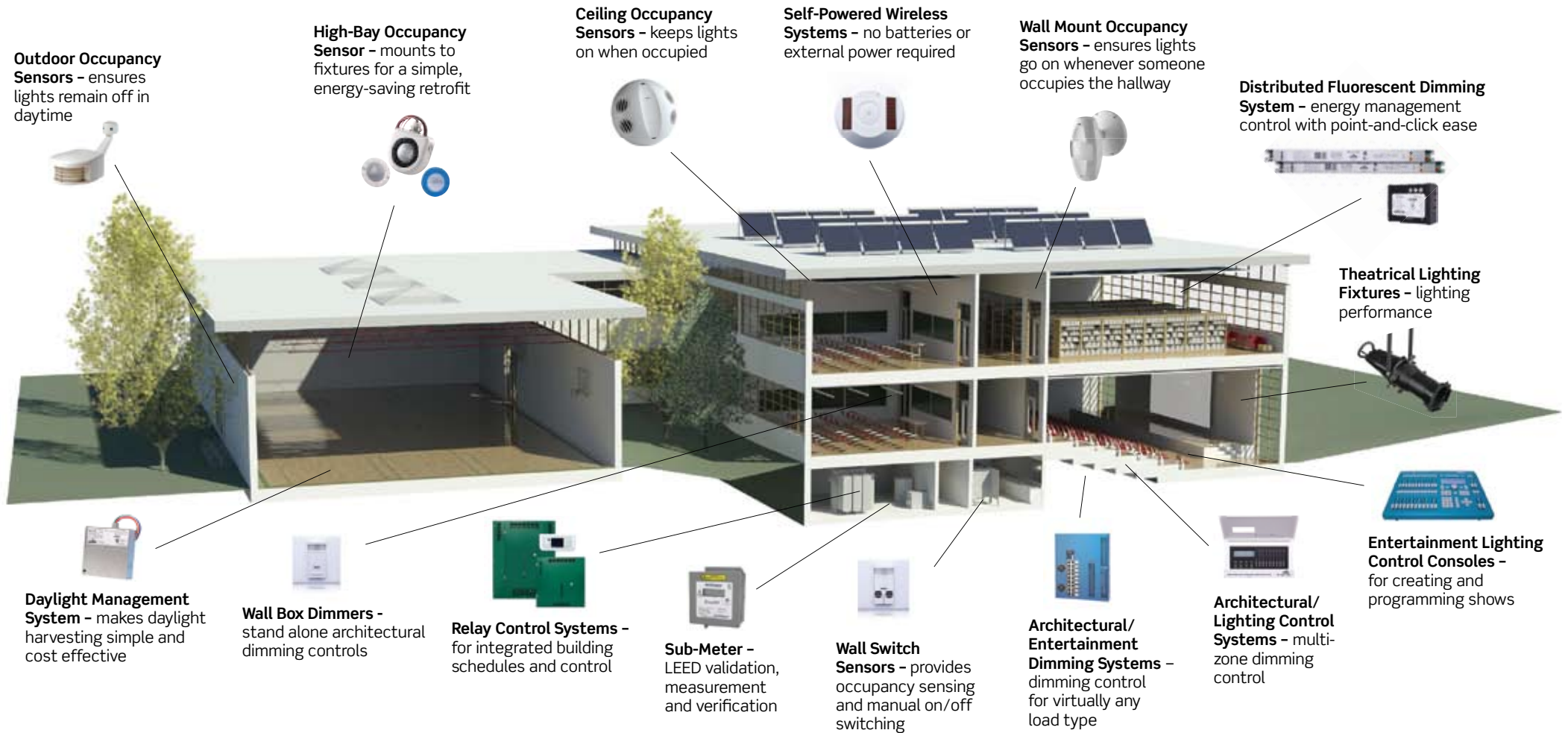
Measure Carbon Footprint



See % Usage by Group



Energy Management & Lighting Controls Single Source Solution



“Leviton’s industry experts are here to support you every step of the way.”



UNMATCHED SERVICE & SUPPORT

There is much more to making lighting more energy efficient than just installing a device or two. System design, product selection, installation and service: it needs to all come together. That’s where Leviton service and support options come in. Leviton helps you design your system and make the right product selections so you can create and build a system that does exactly what you want it to do while meeting codes and standards and saving energy. Leviton’s industry experts are here to support you every step of the way.

No other manufacturer offers you as much service and support as Leviton. Save time and energy in your design process by utilizing Leviton’s exclusive no cost design services and resources at <http://portal.leviton.com>

- **Unmatched occupancy sensor layout services** – submit your CAD files via the online portal and Leviton will supply professional grade submittal package drawings and a comprehensive list of equipment.
- **Occupancy sensor layout tools** – easy project coverage areas and create your own CAD layouts.
- **ASAP Lighting Control Designer Software** – quickly design, specify and enter orders in minutes with this point and click design and BOM generating software.
- **Dollars & Sensors Software** – uses a DOE savings database to produce immediate energy savings potential, payback and ROI reports when you use Leviton occupancy sensors.
- **Ez-Learn online training programs** - 365/24/7 training swap around providing e-certification.



SERVICES AT YOUR FINGERTIPS

Let Leviton help you take advantage of your potential energy-saving opportunities. To discuss the solutions that Leviton can offer contact us at lmeinfo@leviton.com

LEVITON MANUFACTURING CO., INC. LIGHTING MANAGEMENT SYSTEMS

20497 SW Teton Avenue,

Tualatin or 97062

T +1.503-404-5555

E ESPhelp@leviton.com

201 N Service Road, Melville,

NY 11747 USA

T +1.631.812.6000

F +1.800.832.9538

E info@leviton.com

LEVITON INTERNATIONAL

Middle East & Africa

T +971.4.886.4722

F +971.4.886.4723

E lmeinfo@leviton.com

Canada

T +1.514.954.1840

F +1.514.954.1853

E pcservice@leviton.com

South Korea

T +82.2.3273.9963

F +82.2.3273.9962

E infokorea@leviton.com

China

T +852.2774.9876

F +852.2774.1741

E infochina@leviton.com

ASEAN Countries

T +65.9824.4468

F +65.9464.9592

E infoasean@leviton.com

Australia & New Zealand

T +64.4.562.8327

F +64.4.562.8327

E intl@leviton.com

Latin America

T +52.55.5082.1040

F +52.55.5386.1797

E lsmarketing@leviton.com

Europe

T +47.40.60.30.30

F +47.40.60.30.31

E infoeurope@leviton.com

India

T +91.80.4322.5678

F +91.80.4322.5600

E lev_india@leviton.com



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