



# LumiSmart™

Intelligent Lighting Controller

What you need to know.  
Frequently Asked Questions.

## ▪ **What is the LumiSmart ILC?**

The LumiSmart ILC is a patented intelligent lighting controller that is installed on the electrical circuit that supplies linked fluorescent lighting fixtures. By using the LumiSmart ILC, building owners are able to immediately reduce energy consumption and costs associated with lighting by 30% or more without compromise to consistent lighting levels or occupant comfort. The LumiSmart ILC is unique because of its internal software, the building owner does not require a computer system to manage the installation. LumiSmart ILC does not require ballast or fixture retrofit and operates with the existing standard fluorescent tubes and fixtures. LumiSmart ILC not only reduces energy consumption but provides power factor correction to improve lighting system efficiency.

## ▪ **How is LumiSmart a Smart Grid solution?**

The LumiSmart ILC reduces a building's peak electricity demand and reduces the facility's electrical energy consumption, reducing costs for the owner. Peak demand reduction and energy conservation are two of the drivers in Smart Grid development. Electric utilities want the ability to reduce demand and energy consumption quickly in response to system conditions. Demand Response programs form one component of Smart Grid and LumiSmart ILC enables building owners to participate in these programs. Through its patented software and web interfaces LumiSmart ILC gives building owners the tools to adapt their lighting to reduce electrical demand and energy consumption as part of a Demand Response program. Demand Response and other similar programs can be sources of revenue for a building owner as some electric utilities have incentive payment programs. Contact your local Electrical Utility for more information on Smart Grid programs.

## ▪ **Do I have to replace my lamps or ballasts?**

No, LumiSmart ILC is connected to the circuit breaker that supplies the fluorescent lights on the circuit being controlled. One LumiSmart ILC is required for each lighting circuit breaker. The LumiSmart ILC is installed in the electrical closet adjacent to the appropriate electrical panel. There is no need to replace any lamps or ballasts unless they are already scheduled to be replaced due to natural end of life replacement.

## ▪ **Is the LumiSmart controller IP addressable?**

No, as a standalone unit it is not directly IP addressable, the LumiSmart Smart Grid Module (SGM) is required and will be available soon. This unit is equipped with an RJ45 (Ethernet) connector built into the device. Only 1 SGM will be required to support the connectivity of the LumiSmart ILC's in each installation. This means that if you have multiple floors in your building and the LumiSmart ILC's are installed on each floor, you will need 1 SGM per floor or per installation location. The Ethernet connection enables the LumiSmart SGM to communicate with building automation systems and other Demand Response systems. A supplemental service subscription may be required in certain regions to enable this functionality. IP connectivity capabilities will continue to increase over time and these functions are included when a LumiSmart SGM is purchased.

- **How long is the LumiSmart controller warranted for?**

The LumiSmart ILC is equipped with a 3 year limited warranty on all parts. If a unit fails within the warranty period, contact your reseller and they will arrange for an RMA with the local distributor. We aim to have the controller replaced within 48 hours. During this time you will be able to run your lighting in non-energy saving mode until the unit is replaced.

- **What happens if LumiSmart fails, will I be without lights?**

No. The LumiSmart ILC has built-in fail safe technology and by-pass circuitry that assures fail-safe operations. If a LumiSmart ILC unit fails, the lighting system returns to normal non-power saving operation at 100% consumption.

- **What voltages does the LumiSmart ILC support?**

The LumiSmart ILC works with 110V, 120V, 220V, 240V, 277V, 347V & 480V supply voltages and easily connects to any lighting distribution panel. LumiSmart is compatible with up to 20Amp breakers and is certified to manage loads of up to 6.9 kilowatts.

- **Is the LumiSmart solution a dimmable ballast solution?**

The LumiSmart ILC solution is not a dimmable ballast solution. Dimmable ballast solutions can dim a fluorescent light causing a reduction in wattage consumption but they require replacement of all fluorescent ballasts and typically require specialized software to control the lighting network. These systems can work well for new buildings but they are extremely expensive particularly if you are looking to retrofit an existing building. A single LumiSmart ILC can control up to 130 fluorescent tubes and does not require replacement of ballasts or the introduction of complex lighting management software.

- **Where can I deploy the LumiSmart ILC?**

The LumiSmart ILC is ideally suited for any property that spends in excess of 15% of the total electricity bill on fluorescent lighting systems. A single LumiSmart ILC can control 50-130 fluorescent tubes depending on the voltage and lamp/ballast wattage. The LumiSmart ILC solution is ideally suited for Big Box Retail Stores, Shopping Malls, Hospitals, Schools, Offices, Warehouses, Factories, Conference Facilities, Hotels, Sporting Facilities, Multi-Unit Residential buildings and Parking Garages.

- **How is LumiSmart Installed?**

The LumiSmart ilc must be installed by a licensed electrical contractor. Contact your reseller to find certified installers in your area.

- **How long is the ROI for a LumiSmart ILC solution?**

Depending on the hours of operation (12 hours vs. 24 hours), the voltage and the number of lamps managed, the ROI can range between 6 months and 36 months. Contact your reseller for a benefits and ROI analysis for your facility.



- **Where can I deploy the LumiSmart ILC?**

The LumiSmart ILC is ideally suited for any building / facility where fluorescent lighting energy costs are more than 15% of the facility's electricity bill. A single LumiSmart ILC can control between 1 and 130 fluorescent lamps depending on the supply voltage and the lamp/ballast wattage. The LumiSmart ILC solution is ideally suited for Big Box Retail Stores, Shopping Malls, Warehouses, Factories, Conference Facilities, Hotels, Sporting Facilities, Multi-Unit Residential buildings, Parking Garages and institutional applications.

- **How is LumiSmart Installed?**

The LumiSmart ILC must be installed by a licensed electrical contractor. Contact your supplier or regional distributor for a list of electrical contractors in your area.

- **How long is the ROI for an LumiSmart ILC solution?**

The ROI depends on a number of factors; the hours of operation, the number of lamps and lamp/ballast wattage on a Lumismart ILC controlled circuit, the supply voltage and the electric utility rates. ROI can range from 12 months to 36 months. A quick ROI calculator is available on our website [www.lumismart.com](http://www.lumismart.com). For a more detailed analysis of your facility contact your Lumismart ILC supplier or regional distributor to discuss.

- **Do I have to be connected to a Smart Grid?**

No, multiple LumiSmart ILC's can be controlled by a single LumiSmart SGM to create a Virtual Smart Grid within any building. This is accomplished simply by utilizing the functionality of the LumiSmart SGM and the LumiSmart web interface to control the building lighting system in real-time or to program a schedule of load shedding. This can be done remotely from anywhere in the world or while you are standing right next to the lighting panels.



