



"IntelliWave" Wireless Self-Powered Building Automation & lighting Control System Items

WIRELESS SELF-POWERED (No Battery or Other Power Source is Required) BUILDING AUTOMATION & LIGHTING CONTROLS

Wireless self-powered (no batteries or other power source is required) controls that greatly reduce the amount of time and materials needed to install green building energy management systems, are available from Crownlite Mfg. Corp. across its entire new and retrofit product lines.

Using a proven digital protocol, developed by Siemens AG., this Crownlite product line now includes wireless light switches and sensors (temperature, occupancy and light) that are self-powered using mechanical or solar energy sources. These extremely reliable battery-free switches (transmitters), with a range of up to 1000 ft in the open and up to 150 ft inside buildings, communicate with room and building controllers (receivers) to conserve energy through occupancy sensing, daylight harvesting and personal workspace control technologies. Over 500,000 sensors and switches enabled with this self-powered digital technology have been deployed worldwide, controlling building automation, lighting, industrial, automated meter reading, and environmental applications.

One of the most effective strategies used for green buildings to minimize energy waste is by integrating building control technologies; switching off lights to reduce air conditioning demands in unoccupied spaces; reducing artificial light levels when natural light is available; and allowing building occupants to customize lighting and temperature preferences at individual workspaces. Self-powered wireless sensors and switches are playing a vital role in the world's economic and environmental recovery.

Check with your local governmental and utility authorities for information on tax advantages, grants, and rebates available for using this GREEN technology. The **LEED (Leadership In Energy and Environmental Design)** Green Building Rating System is the internationally accepted benchmark for the design, construction and operation of high performance green buildings. Creating qualifying energy management solutions for eco-friendly smart buildings that enhance productivity and save on long-term costs, using these technologies, is a perfect easy way to earn LEED points (Control of lighting, etc).

Powered by technology that converts the press of the switch into a small amount of electricity, these commercial grade products are based on miniaturized energy converters and ultra-low-power wireless modules. Each self-powered wireless light switch can be placed anywhere within range of a receiver. Traditionally the wireless light switch is surface mounted on a wall with screws or industrial tape, it can also be used in a standard switch box or as a wireless hand held remote.

Crownlite maintenance-free wireless self-powered (no batteries or other power source is required) controls can be factory pre-installed into virtually any Crownlite lighting fixture product to provide solutions for energy-efficient buildings and require substantially less time and materials than purely wired solutions. On/off or 0-10v dimming are available. Controls can also be

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integrated into available occupancy/vacancy sensors. Control transmitters do not use batteries and the system offers maintenance-free, long-term operation.

Crownlite self-powered wireless products do not require wiring between the transmitter and controlled device; allowing the switches and sensors to be placed anywhere. Crownlite wireless light switches use a small micro-generator to convert each switch-press into a small amount of electricity. This electricity is used to transmit a wireless signal that communicates with a wide variety of control receivers. These battery-free wireless devices, primarily used to control lights, can be used to control virtually any on/off device, including security systems, HVAC systems, fans, blinds, lamps and motors. Crownlite photocell, daylight, and thermal sensors harvest energy through a small solar cell which collects energy from ambient light. Interoperable receivers can plug into outlets or be hard-wired to the devices they control.

And to insure the success of your maintenance-free wireless self-powered building control system project, Crownlite's fully trained control engineering support group will work with your design and engineering team from programming, through design and engineering, specification, procurement, installation, and commissioning.

Please >> [Contact Crownlite](#) to explore your specific Wireless Self-Powered Building & Lighting Control System needs.

Self-powered transmitters

- Consumes no external power
- No Batteries or Wires.
- Maintenance-free
- The switch provides its own power using a built-in micro generator
- Integrated lighting and HVAC controls
- Manual On / Off, ON / Auto OFF, Auto ON / Auto OFF control commands to Relay Receiver
- Bi-level lighting control
- Multi-level lighting control
- Capable of 0-10v dimming when used with dimmer receiver
- Dimming (LED, low voltage, incandescent, fluorescent)
- Occupancy Sensing (wireless or wired)
- Fast, simple installation (No wire from switch to load)
- Shorten electrical planning by hours
- Reduce labor required for initial installation
- Simple installation involves minimal labor expenses

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Self-powered transmitters (con'd)

- Reduce future expenses
- Flexible, adaptable systems can be moved or expanded with ease after initial installation
- Avoid wall repairs in retrofit applications
- Eliminate switch legs, traveler wires, and other raw materials
- Mounts on flat any surface or switch box
- One switch controls an unlimited number of receivers
- Matches existing "decorator" style light switches.
- Available in five colors: white, black, light almond, ivory, and brown
- Each switch has a unique ID (the Relay Receiver memorizes the IDs of switches that are assigned to the receiver)

120 V Relay Receiver

- Wires to 1 light or group of lights (up to 200W)
- Fits inside light fixture, junction box, or switch box
- A single receiver can be controlled by up to 30 wireless switches
- 0-10v Dimming available

Crownlite Mfg. Corp.

As YOUR Strategic Partner

We at Crownlite are totally committed to your success!

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WE'RE HERE TO HELP