GreenMAX® DRC

Leviton creates custom-made Smart Packs for hospital lighting controls.

The Challenge

A new 177,000 sq. ft. hospital in Front Royal, Virginia, with 36 private in-patient rooms, emergency services, procedure, and operating rooms, had specific requirements for patient rooms and other facility areas. The hospital added improved lighting controls to its patient rooms during loss of power. Their goal was to make sure the patient comfort was not disrupted during power outages.

The hospital must also meet ASHRAE 90.1 2016 and 2018 IECC energy code requirements for healthcare facilities.

The Installation

Leviton worked with Commercial Lighting to install a GreenMAX DRC System, including custom-made smart packs for power loss in the patient rooms. UL924 Smart Packs were installed in the rest of the hospital to ensure the lights stayed on and met energy codes.

The Solution

Leviton created new, non-UL924 GreenMAX Smart Packs for each patient room to meet the hospital's criteria for the space. The smart packs were programmed to tell the lights to stay OFF for six seconds when power is restored and the smart pack reboots. This ensures the lights do not turn ON at 100% and not disrupt patient comfort.

A new part number was created for this smart pack, and Leviton is currently using it in other hospital projects around the U.S.

Meet specific patient room requirements and energy codes with GreenMAX DRC.

Additional GreenMAX Line Voltage Room Controllers were installed throughout the hospital to coordinate the energy management functions in each room.

GreenMAX DRC Smart Packs

The GreenMAX DRC 0-10V Smart Pack enables switching and 0-10V dimming control of a single zone of fixtures, allowing for a distributed control solution. Used to control multiple fixtures in a zone or for plug load control solutions, the DRC uses distributed relays, which eliminates the need to run wires back to a cabinet.

DRC relays can be used as a normal or emergency relay, a remote relay with the GreenMAX DRC system, and engineered for standard room settings.

This revolutionary system is fully configurable via the GreenMAX DRC App. It can be used to comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 occupancy/vacancy sensing, multi-level lighting, daylight harvesting, partial-ON, partial-OFF, scheduling, exterior lighting, demand response, and receptacle control requirements.

Line Voltage Room Controller

The GreenMAX DRC Line Voltage Room Controller serves as the "brain" of any GreenMAX DRC Room Control System by coordinating the energy management functions within the room.

The Line Voltage Room Controller is UL924-rated for emergency control. It monitors local standard power through the control input and ensures the device is on upon typical power failure.

Each room requires one room controller to connect with components such as load control devices, user interfaces, digital keypads, and sensors.

Leviton offers spec-ready lighting and control solutions for healthcare applications.

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