

Lighting Controls

GreenMAX® Relay Panels,
DRC Smart Packs, Analog Sensors

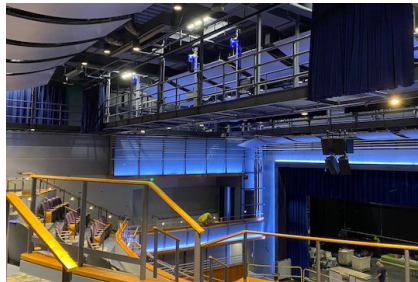
Project Case Study

Arts School
Boston, MA



GreenMAX® Relay

A Boston arts school uses GreenMAX Relay Panels in its renovated building to control lights and meet energy codes.



The Challenge

An aging arts school in Boston got a significant, multi-year renovation which included adding three additional floors to the building, new windows, new corridors, a new auditorium, lab spaces, and classrooms.

The school expanded from 121,000 square feet to 153,500 square feet and had to meet 2018 IECC energy code requirements.

The Installation

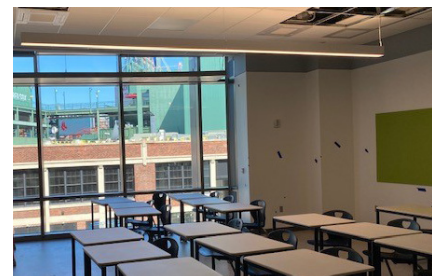
Leviton worked with an electrical design team to install distributed GreenMAX Relay Panels on each floor along with GreenMAX DRC Smart Packs, and Leviton Analog Sensors in the classrooms, shared spaces, and restrooms.

The Solution

Leviton GreenMAX Relay Panels were chosen for dimming and daylight harvesting control on each floor to meet 2018 IECC energy codes. The facility team provided direction on the schedules needed for the interior and exterior lighting to turn ON and OFF based on hours of operation and holidays.

Distributed voltage cabinets (RLV16-316) were installed on each floor to wire ceiling sensors (OSC20-RMW) and daylighting photocells (PCIND-000).

Leviton analog sensors were installed in the classrooms, restrooms, and common spaces to ensure lighting remains ON when occupied and OFF when vacant.



Meet individual room requirements and energy codes with GreenMAX Relay Panels and GreenMAX DRC Smart Packs

GreenMAX DRC Smart Packs (DRD07) were installed throughout the building for switching, 0-10V dimming in individual zones, and to control emergency management loads. This helped reduce installation costs as these devices are distributed by CAT6 cables and could be wired directly into the classroom instead of back to a panel.

BACnet integration was implemented through the distributed GreenMAX system for additional control and monitoring of the lighting and building systems.

GreenMAX Relay Panels

GreenMAX offers unlimited and flexible lighting configurations that are easy to monitor, manage, and maintain while meeting energy code requirements regardless of the project size.

Native BACnet, Ethernet, and LumaCAN simplify configuration and BMS integration. GreenMAX Relay modules have a higher rating than the competition and are rated at 30 A for General Fluorescent Ballast and 20 A for Incandescent.

GreenMAX DRC Smart Packs

GreenMAX DRC Smart Packs enable switching and 0-10V dimming control of a single zone of fixtures, allowing for a simplified, low-cost, distributed control solution. The smart packs use distributed relays to control multiple fixtures in a zone or enable plug load control, eliminating the need to run wires back to the panel. Smart Packs can be used as a normal or emergency relay, or as a remote relay with the GreenMAX system.

Analog Sensors

Leviton OSC20 Multi-Technology Occupancy Sensors combine the benefits of both PIR and Ultrasonic technologies for unrivaled performance and reliability.

Leviton offers spec-ready lighting and control solutions for education applications for seamless installations and energy savings.