

Classroom Controls with Smart Room Controllers

Code-compliant classroom controls



Leviton Smart Room Controllers (SRC) are engineered to deliver a simple, cost-effective IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 solution.

Energy codes and standards such as IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 require advanced lighting control in classrooms with automatic shutoff multi-level lighting control, and daylighting. ASHRAE 90.1 also mandates the inclusion of controlled receptacles in education applications. Leviton Smart Room Controllers (SRC) can be used to meet all local and national requirements for classrooms. Additional components like plug load controls are easy to expand onto the SRC room solution by adding power packs.



CHALLENGE

Education facility requires a code compliant solution for individual classrooms throughout the school.

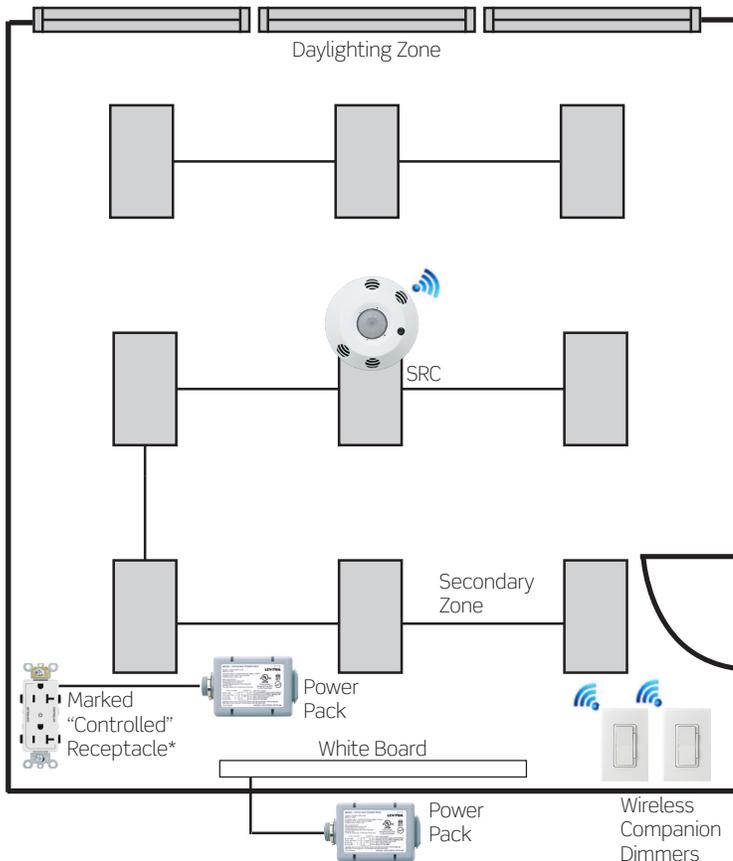
- Campus contains 0-10V lighting
- Classroom lighting is zoned with daylighting areas next to windows
- Solution must be able to control zones separately to accommodate different lighting levels and occupant needs (such as dimming lights for presentations)
- School desires easy installation for quick and efficient implementation
- Solution must comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 requirements, including plug load control

SOLUTION

The SRC is a complete code compliant solution that can be easily commissioned for all individual classrooms within a school.

- The SRC provides 0-10V dimming control
- Solution automatically adjusts electric light levels based on the amount of daylight in the space
- SRC delivers either 1- or 2-zone dimming for multiple light levels between full-ON and full-OFF that can be controlled independently from each other
- Battery powered dimmers wirelessly connect to the SRC for a quick and low-cost installation
- Add a power pack for plug load control
- Use the app to create templates to apply to similar room layouts for fast multi-room installations
- The SRC can be used to comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 occupancy/vacancy sensing, 0-10V dimming, daylight harvesting, partial-ON/OFF, demand response and plug load requirements

SMART ROOM CONTROLLER CLASSROOM SOLUTION



MEETS THE FOLLOWING IECC APPLICATIONS

- Section C405.2.1
 - Occupancy Sensor
- Section C405.2.4
 - Daylight Responsive Controls
- Section C405.2.6
 - Interior Manual Lighting Control
- Section C408.3
 - Functional Testing
- Section C405.11
 - Receptacle Control

MEETS THE FOLLOWING ASHRAE 90.1 APPLICATIONS

- Section 8.4.2
 - Automatic receptacle control
- Section 9.4.1
 - Lighting controls
- Section 9.4.1.1
 - Automatic shutoff
- Section 9.4.4
 - Functional testing
- Section 9.4.1.2
 - Space control
- Section 9.4.1.4 & 9.4.1.5
 - Automatic daylight control

MEETS THE FOLLOWING 2022 TITLE 24, PART 6 REQUIREMENTS

- Section 130.1(a)
 - Area controls
 - Manual-ON/OFF
- Section 130.1(b)
 - Multi-level controls
 - Dimming
 - Task tuning
- Section 130.1(c)
 - Shutoff requirements
 - Partial-ON
 - Partial-OFF
 - Occupancy control
- Section 130.1(d)
 - Daylighting
- Section 130.1(e)
 - Demand response power reduction controls
- Section 130.5(d)
 - Receptacle control/plug load control

WHAT YOU WILL NEED

| Smart Room Controller Classroom Solution | | QTY. |
|---|---|------|
|  | Smart Room Controller ACY20-DMW Provides true 2-zone control for occupancy/vacancy sensing, dimming, and daylight harvesting control for 2,000 sq. ft. coverage | 1 |
|  | Wireless Companion Dimmer SBK00-CDW Dimming control | 2 |
|  | Super Duty Power Pack OPP20-0D1 Allows for control of the whiteboard lighting zone and switching of plug loads | 2 |
|  | Marked "Controlled" Receptacle 5362-2SW For plug load control compliance | 1 |
|  | Smart Sensor App Download from Google Play or Apple App Stores | 1 |

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Visit our website at: www.leviton.com/smartsensors

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