

Lighting Automation in K-12 Schools



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A lesson in facilitating improved learning and enhanced energy savings

Throughout the past three decades, technology has infiltrated every aspect of education. In K-12 school buildings specifically, it has not only changed the way educators work with students and the tools used to facilitate learning but also the classroom environment itself.

Meanwhile, schools are tasked with making limited funding go further as energy costs rise. According to the U.S. Energy Information Administration, lighting accounts for 55% of the typical school facility's electricity consumption, far above any other source, including heating, cooling, ventilation or office equipment. As the evolution of smart technology continues, lighting controls and systems are becoming an integral part of comprehensive building automation systems (BAS), as well as a critical driver of improved learning and better health and well-being for all stakeholders.

Leverage Human-Centric Lighting

Research has shown that artificial light has tremendous biological and physical effects on humans. By manipulating flexible LEDs and innovative control systems, schools can incorporate a healthy circadian stimulus that produces better outcomes for educators, operators and students.

Experience Significant Cost Efficiencies

Through a platform built on BACnet standard architecture that leverages a single WebCTRL® interface, users can monitor and manage networked lighting controls as part of an ongoing energy management strategy that delivers up to 50% energy savings over non-controlled LED lighting.

Deliver Flexibility to End-Users

Intuitive, fully customizable digital touchscreen panels can be wall-mounted in individual spaces, allowing occupants with minimal training and operational knowledge to access preset scenes in real time that augment the environment for certain audiences, activities and times of day.

The Value of Best-in-Class Products and Systems

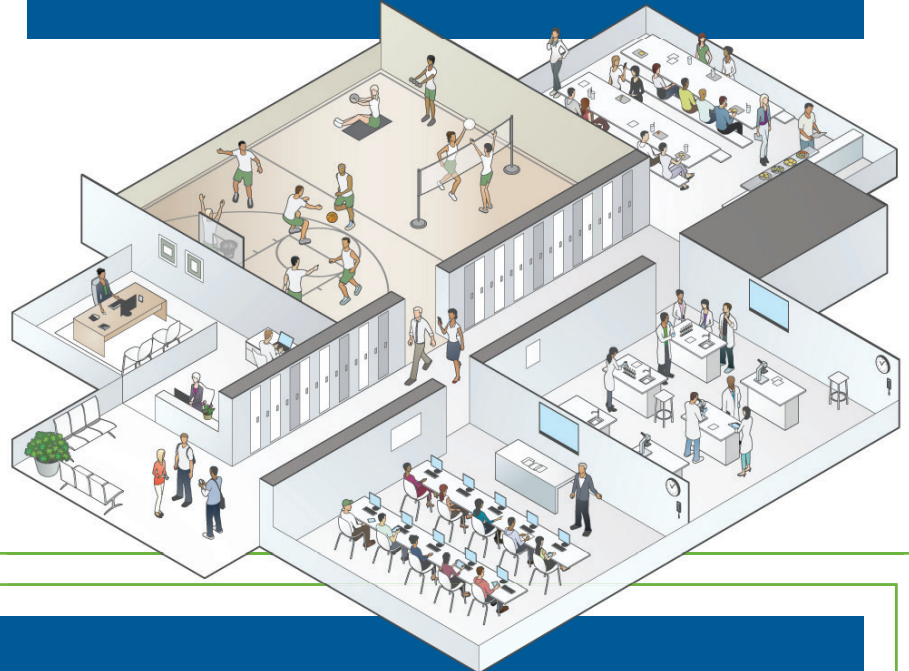
From classrooms to multi-purpose rooms, school buildings house a variety of spaces that must not only meet the needs of students during the day but also the local community after hours and on weekends. As a result, flexibility in lighting is essential for delivering positive results to all users in all environments.



CLASSROOMS Altering light levels and zoning in each room, along with color temperature adjustments, provides educators a way to facilitate increased alertness and improved attention from students when needed, or to create a calming effect for transitioning activities.



MULTI-USE SPACES Utilizing activity-based controls with upgraded LED high-bay fixtures, spaces — from gymnasiums to theaters to general assembly rooms — can be tuned to best suit their intended activity(s), resulting in lower output and energy reduction.



OUTDOOR ENVIRONMENTS Wireless lighting dimming and switching controls and motion sensors can help reduce lighting output at set schedules, while activating or dimming as needed, resulting in 30% energy savings while addressing safety concerns.

What's more, research from the Department of Education and various global studies indicates that human-centric lighting automation in schools can result in better learning and working environments, improved student learning outcomes, elevated teacher satisfaction and retention, and positive human health impacts. This has been demonstrated by increased test scores, reduced absenteeism, better student behavior and improved sleep cycles.

To begin experiencing the benefits of lighting automation in your school or multi-building campus, contact the experts at Control Service Company.

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