Smart lighting controls in Educational buildings
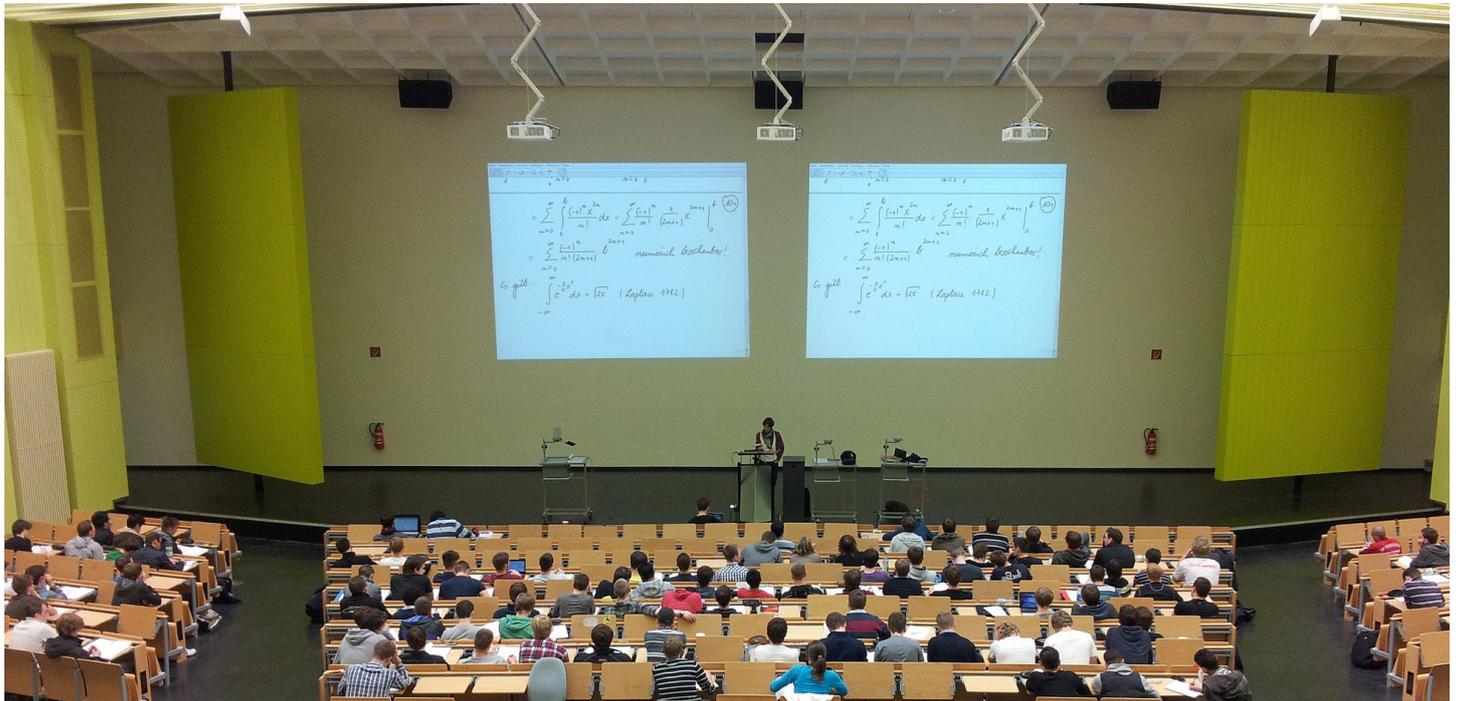
Universities and colleges have to contend with a wide range of user requirements as well as frequent changes of use over the lifetime of the building. Lighting controls are crucial in accommodating these changes with minimal disruption to students, staff and visitors. Working environments in particular can be enhanced through the maximum use of available daylight and circadian rhythm lighting control.

LiGO+ Intelligent Lighting Control

LiGO+ has been installed in multiple College buildings and University campuses across the country. One of the largest benefits to these types of buildings is the ease at which the LiGO+ can be intergrated with existing BMS and AV systems. Furthermore the energy and maintenance savings have also proven to be huge sale factors in this sector as budgets are often dictated by the potential savings.

The LiGO+ is suitable for all types of building and can work as a stand alone solution or alongside other building systems to ensure maximum energy savings and minimal maintenance requirements.

The simple to use LiGO+ web pages allow you to set up the system, create reports and adjust settings. It gives you access to a range of features including:

- Time Control

- Presence Detection

- Emergency Lighting and Reporting

- Daylight Balancing

- Scene Setting

- Dimming

- Circadian Rhythm Lighting

- LED Control

- Condition Monitoring

Out of the box the LiGO+ comes with a range of embedded tools and a suite of preprogrammed smart lighting algorithms. This enables users to quickly and easily group luminaires, set up scenes and control LED's to derive best performance.

LiGO+ key benefits for the Education sector

- Circadian Rhythm is the body's natural life cycle rhythm, this affects mood, productivity, hunger, tiredness etc. Lighting can affect these cycles by matching the natural daylight colours externally with artificial lighting, this is achieved using a tuneable white LED. This allows for control between 2000K and 6500K, scientific studies have shown that altering these temperatures at certain times of the day can increase productivity and mood dramatically.

- LiGO+ has the capability to integrate directly to AV Systems through Ethernet or IO connections. This allows the LiGO+ to be directly controlled through the rooms Lectern/AV System providing seamless control of the space whether it be projectors, audio or lighting all via one control interface.

- The use of DALI wall switches and scene plates allows the user to achieve a wide range of local control. Wall switches can be used to simply switch a designated light on or off, or even dim/increase that light level. Scene plates can be used in installations where there is no AV system, allowing the user to set up scenes such as presentation, cinema, reading and general output lighting.

- The ability to set a specific group up to allow a Presence/Absence setting has proven to be very useful within the Education sector. This allows the user to set up the PIR to either initiate the lights upon trigger (Presence) or be used only for Timeout function, meaning the lights will not initiate without user interface, i.e. A wall switch but will allow the PIR to time the lighting OFF, if there is no motion within the space (Absence) The timings for the PIRs can be changed within each group, allowing the user to set up specific timings in every classroom.

Some of our Education projects include

- Cardiff University – LiGO+ was installed to provide AV and TREND integration along with emergency test reports automatically set to email the estates team. Maintenance can now be easily scheduled around term times, limiting disruption to students.

- Royal Holloway University – BMS integration was the the main priority as the estates team use Trend 963 for all their systems. One of their key requirements on site was that the lighting control system installed was TREND compatible, LiGO+ fitted the specification perfectly.

- Imperial College London – Tunable white was required for this installation allowing the use of Circadian Rhythm which has been proven to increase productivity and mood within the workplace. LiGO+ was installed providing the college with the functionality and features they required.

- Greasley Beauvale School – LiGO was installed to enable the use of timezones and presence detection, providing energy savings to the school. The system also has a Full Circuit Monitoring set up, If a circuit trips on the DB, the LiGO will turn the emergencies within that area ON.

Commissioning and Support

Open Technology pride ourselves on providing a flexible, cost effective and easy to use lighting control solution, but thats only part of our offering. Our experiences team of Sales and Commissioning Engineers provide full support from concept, installation and set-up, right through to handover to the end user.

Our technical knowhow and experience across many buidling types and sectors means we are well placed to offer you a lighting control solution fit for your building and its requirements.

For more information about the LiGO+ intelligent lighting control system please visit www.opentechnologyuk.com.

Alternatively to speak with one of our team in more detail or to arrange a demonstration of our products and solutions, please contact us on 01444 230 660 and we will be happy to discuss your requirements.

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