

# ClassControl



**RIDI**

Class Control

Lighting control for teaching environments

[www.ridi.co.uk](http://www.ridi.co.uk)

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## Setting the learning agenda

*Burnham Copse School. This RIBA Award winning refurbishment combined the performance of the direct/indirect, low profile F-Line luminaire with RIDI's Class Control system.*

With a variety of scenes achievable, through the use of a tailored control interface, Class Control allows swift and simple alteration of lighting levels, to create the optimum learning environment, whatever the external conditions.



**Luminaires dim automatically to save energy**

### Daylight saving

- Lights dim as daylight increases
- Energy usage falls

When natural daylight reaches a point at which lighting levels can be reduced, Class Control's daylight detection sensors allow for gradual dimming of luminaires.

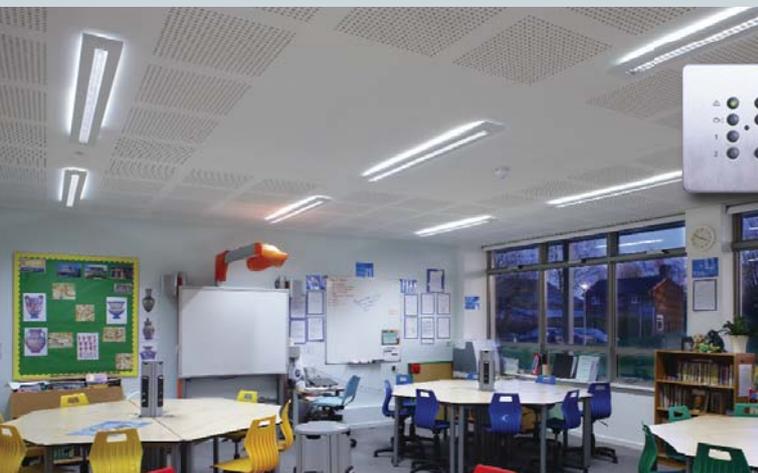


**Interactive whiteboard mode for clear viewing**

### Interactive Mode

- Lights near projector lowered
- Remaining lights provide working level

The interactive whiteboard is a common feature in today's classroom but the learning experience only reaches its full potential when lighting levels are able to adjust to the teaching situation, minimising glare and reflection.



**Well-lit environment when daylight is low**

### Low natural light

- Levels maintained as daylight fades
- Light level can be adjusted at any time

Just as the daylight saving mode reduces lighting intensity, Class Control's daylight sensors automatically increase output from the luminaires when levels of natural light fall.

Call us: 01279 450 882

# Energy saving

With lighting often accounting for in excess of 20% of a school's energy bill, incorporating lighting control makes perfect sense.

Through the use of features such as daylight detection and absence detection, Class Control allows for a significant dent to be made in levels of energy consumption.



Booker Park School



## RIDI's combined daylight and absence detection sensor

Class Control is formatted as an absence detection system. With absence detection you switch the lights on manually, only when you really want them, saving extra energy. Alternatively we can configure the system for presence detection where, in addition, the lights turn on automatically when you enter the room. In both cases once you've left the room the lights are turned off automatically.

# Regulation

Aside from the practicalities catered for within lighting guidelines, such as glare and reflection, both Part L and BREEAM ratings focus heavily on responsible energy usage within schools.

Each element of RIDI's Class Control system is designed to ensure that the lights in a classroom are only activated when needed and that they operate at an intensity level suited to the conditions and the task in progress.

The installation of a lighting control system across the school building contributes to its BREEAM rating.\*

\*With an average secondary school sized installation, 2.66 points can regularly be achieved

# ClassControlAdvanced

M-Lab – London Business School



For more advanced classrooms, we can also add creative RGB features and mood setting from simple touch panel controllers. Contact our design team for advice.

# Achieving excellence

Pinewood was one of the first schools to receive an 'excellent' BREEAM rating, achieved with the combination of RIDI's efficient luminaires and its tailored lighting control system.

Light sensors in all classrooms not only reduce the lighting levels to save energy, depending on outside light conditions, but special three-scene set controllers can configure the lighting for whiteboard, projection or general teaching.

Absence detection sensors turn the lights off once the room is vacated.



RIDI's F-Line luminaires provided the lighting in Pinewood's classrooms. Available in surface-mounted or suspended format, with an ultra-slim 25mm low profile body and capacity to accommodate a range of T5 lamp sizes and configurations, F-Line is well suited to a wide range of education applications.

[www.ridi.co.uk/controls](http://www.ridi.co.uk/controls)

# Comprehensive package

Design, supply, commission and service



As manufacturer and supplier, RIDI will work with you from the very beginnings of a project. Our engineers will help you select the right parts to match precise requirements and ensure that all luminaires and controls are compatible, economical and achieve maximum efficiency.

## Why lighting control?

*"Since 2005, all major new build and refurbishment projects have had to aim to achieve a BREEAM Schools rating of 'very good'.*

*Significant improvements in the sustainability performance of a building can be achieved at little additional cost and the most significant means of reducing emissions is through the installation of automatic daylight controlled dimming.*

*If it was not possible to make such large savings on lighting, the achievement of zero carbon would be much more difficult."*

BRE Trust, 2008

For ease of maintenance, RIDI's service team centrally stores full system information. This means that should any component fail, a replacement can be pre-programmed at the factory and dispatched ready for use, without the need for costly recommissioning.



# Simplicity . . .



User presets can give additional flexibility to enable low light settings or even higher levels for adult education usage at the touch of a button.

**Class Control** is based on addressable luminaires, sensors and switches. For this reason, wiring is extremely straightforward, with just a mains supply to each luminaire and a two core bus cable servicing each device.



## Ordering specification:

Specify:	Ridi Class Control
Wall plate finish:	White, stainless steel or brass
Optional hand-held remote:	RI-RM
Partition Switch input **	P-Sw

\*\* Enables automatic separation of room control when room is divided into two by means of a screen or folding door

## . . . and straightforward installation

Where conditions permit, sensors can be mounted as an integral part of the luminaire\*. As a result, with installations using surface mounted or suspended luminaires, no control boxes are needed.

For applications requiring recessed fittings, RIDI's connection modules make installation even easier. All luminaires and sensors are pre-wired, with mains fed via a multi-point Luminaire Connection Module (LCM). To connect to the control interfaces, only a two core cable is required to link switching components and additional LCMs.

**Technical specification:** Luminaires and all control devices are connected using DALI bus circuits. Luminaire light output is regulated to compensate for available natural light. Lights require switching on manually but will switch off after a preset period of the room being unoccupied (absence detection). Four preset lighting scenes are available; general use with daylight regulation, interactive mode where light near projector are dimmed or off and two user presets. Light level may be manually overridden in any mode.

\*May not be fitted integrally in all luminaires, please ask for details



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